

### FOOTBALL PREVIEW

Denver Broncos and CSM  
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### GEEK OF THE WEEK

**Sarah Le:** "I put LEDs in everything,  
I put lights in my hair, prom dress,  
and prom shoes." - **Page 8**



### OREDIGGER ONLINE

Oredigger.net now features:

- » Liberal and conservative blogs
- » "Tech Break" blog with Ian Littman

# Golden up in arms over Al-Jazeera broadcast

## News station continues despite protests, critics

**Lily Giddings**  
Design Editor

Most Colorado residents expected the Democratic National Convention to bring controversy to Denver, but few expected it to unravel the quiet town of Golden.

Tensions ran high on Thursday, August 21<sup>st</sup> at the Golden City Council Special Business meeting, where residents and local business owners reacted to the announcement that Al-Jazeera English would be featuring Golden in a follow-up piece on the DNC.

City councilors, concerned citizens, local police officers and news crews descended on City Hall to de-

bate the arrival of the news network. A variety of citizens stood before council members to make arguments for and against allowing Al-Jazeera to broadcast from Golden.

Laura Woodward, the wife of a veteran who lives in Golden, said, "I'm very opposed to Al-Jazeera coming to Golden. I'm not saying that I don't like them, but I feel that it would be inappropriate of them."

Veteran Steve Hosey expressed his displeasure with the Golden City Council's treatment of Al-Jazeera, accusing the council of "rolling out the red carpet [and] holding a barbecue for people who have no regard for our rights here in the United States, no regard for our Americans, no regard

for our veterans overseas." Hosey continued with an admonishment that Mayor Jacob Smith should do his research before allowing a "known terrorist media mouthpiece" to come to Golden.

"I did not serve 30 years so that the Bill of Rights could be stomped on. I served so that we as Americans would have the freedom of speech, freedom to do many things," said veteran Jim Dale.

**SEE "AL-JAZEERA"  
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PATRICK BESEDA / OREDIGGER

# Google launches into politics

**Jason Fish**  
Content Manager

In the past, American citizens may have had trouble finding useful information during campaign and election seasons. Questions like: "What does he say about this issue? Where will she be speaking at the convention? Where can I vote in November?" come up frequently, and the route to answers is not always simple.

Google, Inc. is working to give voters a comprehensive online resource to quickly find out whatever they want to know about Election 2008.

Found at [www.google.com/2008election](http://www.google.com/2008election), "It's a 'one-stop shopping' for people," said a Google representative at an exhibit in the Colorado Convention Center (CCC) on Tuesday. "It makes it easier for people to find information on the conventions, voting, pictures, videos, and what the candidates are up to."

The exhibit used laptop computers and several television monitors to display the various features of the website. Voters can upload their pictures from the conventions, videos (to YouTube), and browse other people's posted content. The Google Maps and Google Earth applications have been customized to show convention information as well as voting registration and polling locations.

"We've only processed voting information from six states so far," said the representative. "However,

we will have all 50 states up before the election - it takes time to process all their stuff." All voting locations will be labeled on Google Maps around October, with the usual directions and contact information available.

Google unveiled its election resource site a week before the Democratic National Convention (DNC) began, according to an article from ABC News. They sent representatives to both national conventions to answer questions and generate awareness about the website.

In a pamphlet collected at the booth, Google cites the increasing percentage of people who go online to find out about campaigns and the election as a motivation for the project. Using poll data collected by Pew Internet & American Life Project Surveys during the past three presidential election years (up through Spring 2008), the search engine giant showed that 40 % of adults now use the internet for this purpose, as opposed to 16 % in 2000.

The site's homepage offers tab-format pages, organized under the candidate's names, showing recent news articles and blog entries concerning them. Clicking on the conventions link will direct the viewer to a two-columned page where news, pictures, video, and blogs (in that order) can be accessed freely. Google Maps and Google Earth can be used to find select convention events, times, and other pertinent information. Visitors can also subscribe to a special form of Google Reader to get constant updates on what the candi-

dates are reading online.

Google set up their DNC headquarters in a temporary building a few blocks from the Convention Center, calling it the Google Retreat. Sharing space with citizen-powered news sites Digg.com and Daily Kos, the place featured a blogger lounge, free smoothies, free 10-minute massages, and a similar visual tour of the resource website to the exhibit in the CCC. The suite also featured a plug-in wall with various charger connectors to juice laptops and cell phones, and more representatives gave tours to interested passers-by.

While the website will satisfy Republicans and Democrats with equal coverage, no third-party resources exist, with the exception of appearances in news articles collected in the Election feed. The bi-partisan focus may change down the road to November, though Google reps declined to comment.

The website can also be accessed via mobile phone through [m.google.com/elections](http://m.google.com/elections). For more election and candidate information and news, check out [www.tech-president.com](http://www.tech-president.com), a website with similarities to Google's project, offering opinion poll data, blog searches, and streaming news.

# Zoom zoom

## Bicycle program "revs up" on campus

**Zach Boerner**  
Staff Writer

While bicycles have long been an efficient way to get around, getting one is about to become a whole lot easier.

A bike-share program places racks of community bikes at major hubs so that a person can grab a bike, ride it to another hub, and drop it off, enabling someone else to do the same thing. It removes the hassle of locking up your bike, or trying to take it over long distances.

The bike-share program was an "EPICS" project started last fall by students," according to Derek Morgan, Director of Student Activities. It was started with the intent of being a free program open to students where the bikes would stay on campus, as a quick mode of transport.

Originally, the idea left free bikes at existing campus racks. This idea was reevaluated when EPICS Director Robert Knecht walked around campus after the program began and found only four of the original twenty bikes.

This prompted him to challenge his EPICS classes to come up with ways to improve the idea. Six teams were given various aspects of the project to work on, and what they came up with has become the basis for the new bike-share program.

One of the first ideas that came to light was a security system to track and prevent the bikes from being stolen. Using a kiosk that would be accessed by Blastercard, a bike could be retrieved from the rack and ridden

to another rack, or used the entire day and then returned to the same rack. Because the bikes are linked to an account, it would reduce the risk of someone stealing a bike for their own purposes.

The racks themselves were another group's idea. Using a magnetic locking system, it would prevent the bikes from being stolen directly from the rack, and if a bike needed maintenance, it could be locked into the rack. By doing that, liability is reduced, said Dr. Knecht.

The City of Golden has also expressed interest in the program, which would take some of the responsibility off of the campus. Having racks downtown would provide a safe way to keep the bikes locked up while shopping or eating.

However, with Golden interested in the program, the overall cost starts increasing. While students would pay a bit more in their Activity fee, Golden residents would use a credit or a debit card to pay a nominal fee to use the bikes. These funds would help pay not only for startup costs, but also for the general maintenance of the bikes.

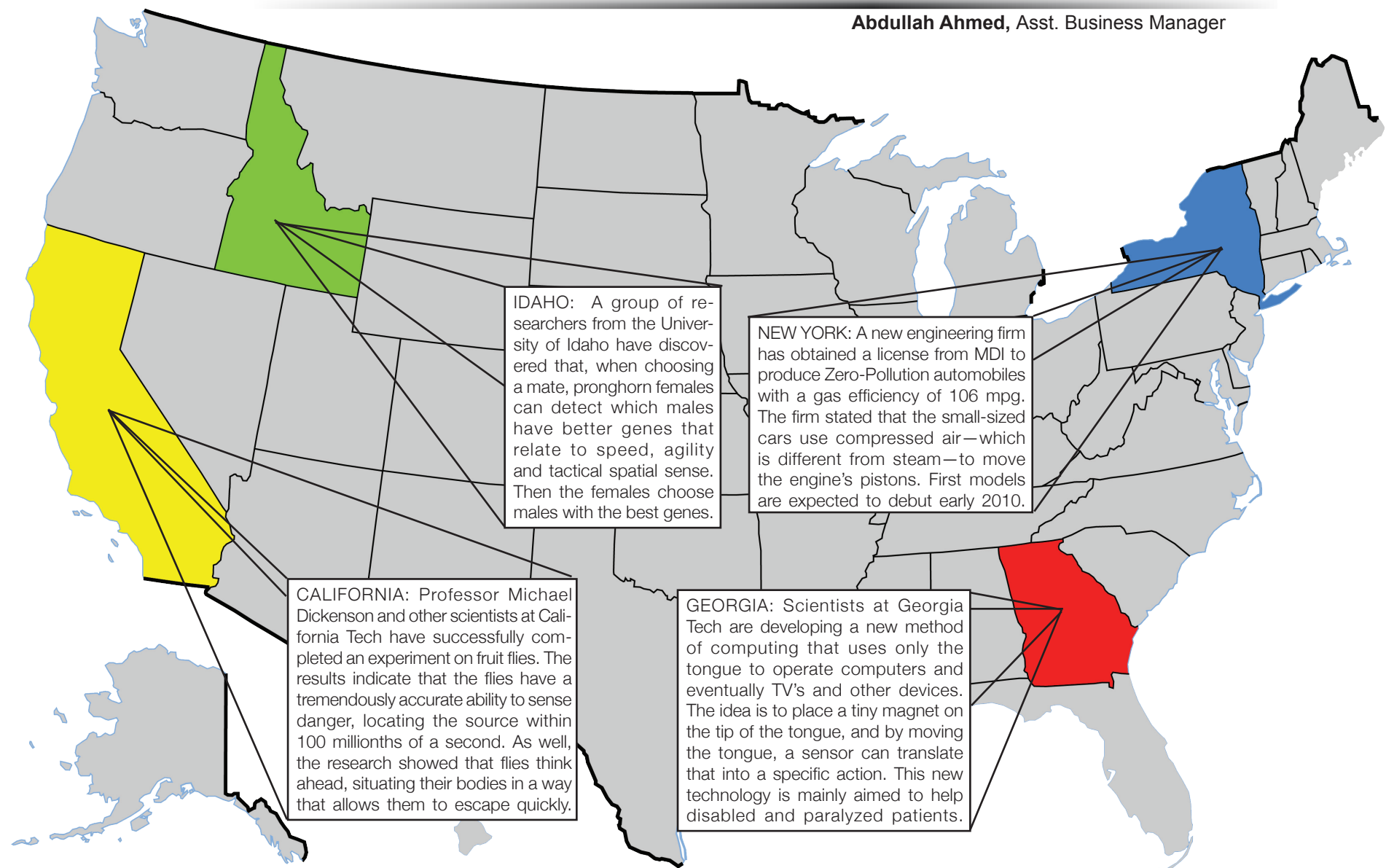
Dr. Knecht said EPICS students also proposed putting advertising on the wheels of the bikes. That way, the program would be self-sustaining and would not be a burden on the City of Golden or on the school's budget.

The program right now is still in its planning stage, but Dr. Knecht and collaborators remain hopeful about starting the program this winter.



# Scientific discoveries of the week

Abdullah Ahmed, Asst. Business Manager



IDAHO: A group of researchers from the University of Idaho have discovered that, when choosing a mate, pronghorn females can detect which males have better genes that relate to speed, agility and tactical spatial sense. Then the females choose males with the best genes.

NEW YORK: A new engineering firm has obtained a license from MDI to produce Zero-Pollution automobiles with a gas efficiency of 106 mpg. The firm stated that the small-sized cars use compressed air—which is different from steam—to move the engine's pistons. First models are expected to debut early 2010.

CALIFORNIA: Professor Michael Dickenson and other scientists at California Tech have successfully completed an experiment on fruit flies. The results indicate that the flies have a tremendously accurate ability to sense danger, locating the source within 100 millionths of a second. As well, the research showed that flies think ahead, situating their bodies in a way that allows them to escape quickly.

GEORGIA: Scientists at Georgia Tech are developing a new method of computing that uses only the tongue to operate computers and eventually TV's and other devices. The idea is to place a tiny magnet on the tip of the tongue, and by moving the tongue, a sensor can translate that into a specific action. This new technology is mainly aimed to help disabled and paralyzed patients.

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## Locals clash with international reporters Al-Jazeera interviews Golden residents, faces protests

Patrick Beseda  
Staff Writer

"They are not welcome in our town," the protestors shouted. "They will be welcome here when we are welcome in Mecca."

Anyone near the intersection of 12th and Washington last Wednesday afternoon heard the whistles, car horns and motorcycle engines blaring in protest of the controversial Al-Jazeera presence in Golden.

Residents gathered downtown to show their opposition to the Arab news network Al-Jazeera. The Qatar-based network was broadcasting out of The Buffalo Rose, a local bar and landmark for many. The network was in town to conduct interviews of Golden residents concerning their political opinions, corresponding to the Democratic National Convention in Denver last week.

Bill Kilpatrick, Golden Police Chief and city resident of ten years, said, "They have a right to be here, as long as they maintain their actions and stay within the law. They have the right to be here, just like these people have their rights to protest."

What occurred in downtown Golden last week would be considered rare for most small, rural towns. Vance Silvia, a member of the U.S. army that served almost 3 years in Iraq, offered a unique perspective on the situation. "This is 100 percent an exercise of the United State Constitution. This is what I fight for," he said.

Residents waved American flags, displayed anti-Islamic signs, played patriotic songs, chanted pro-American slogans, honked car horns and blasted motorcycle en-

gines in protest of Al Jazeera's presence. "Al-Jazeera is a propaganda machine. They are racist and they promote violence," said Rob Alinder, a Golden resident of 35 years. "My beef is not with Muslims. My beef is that they are aiding and abetting terrorists."

Some residents were very vocal about their opinions, yelling phrases aimed at the network's news coverage of Iraq and other Middle Eastern countries. "Americans will wake up when they start beheading us here," screamed James Morris.

Wilma Russell, long time resident and local bar patron, expressed her disgust with the Buffalo Rose. "I don't believe I will ever walk in there again." Other residents vocalized their disagreement with the bar owner, ending friendships and business relationships.

Robert Burton, a member of the American Legion near Golden, said, "I know the history of Al-Jazeera. They are definitely pro-Middle East and, in general, anti-West in everything they show."

Burton also commented on some of protests planned for the event. "There are several groups getting

together just trying to make a bunch of noise around Buffalo Rose," he said.

A handful of residents offered their opinions concerning Golden City Manager Mike Bestor's invitation to Al-Jazeera for a barbeque at his house. The network was supposed to interview Golden residents and Colorado School of Mines students during the event. "[Bestor] has a First Amendment right to invite anyone he wants into his home and I have a First Amendment right to dissent. That's America," said one Golden resident.

"Mike should have never offered his house to them," said another resident. To many, Bestor's decision appeared more political and personal. "If there were no interviews and broadcasts, I would have no problem. Add those and now it's a political platform." At the City Council meeting on August 21, Mike Bestor formally withdrew his invitation to Al-Jazeera. The barbeque was still held on August 28 at an undisclosed household in Golden.



COURTESY ANDREW FERGUSON  
**Grace Under Fire: Former US Marine and Al-Jazeera correspondent interviews patrons of the Buffalo Rose**

## Golden's New Bike Plan

Recognizing the need for improvements in biking around Golden, City council established a Bicycle Master Plan Update task force to accomplish four goals: (1) review the 2003 City of Golden Bicycle Master Plan (available on the city's website at <http://www.ci.golden.co.us/files/bikeplan.pdf>); (2) assess changed conditions; (3) provide recommendations to City council and staff identifying recommended updates to the plan; and (4) and provide recommendations for the 2009 – 2018 Capital Improvement Plan that will make it easier for residents of all ages to bicycle for recreation and for transportation. After meeting weekly during the summer months, the task force is nearing its goals.

But Mines students are an important part of the Golden biking community, with insights into current conditions and ideas for improvements. For this reason, the task force's report date was set after the start of the Mines academic year. At 7:00 p.m., September 4 at the Community Center, 1470 10th Street, the task force will hold its final meeting before completing its proposal to city council. Mines students are welcome to come and share their ideas or contact the task force staff members before then at [rmuriby@cityofgolden.net](mailto:rmuriby@cityofgolden.net) (Rick Muriby, a city planner) or [vauriemma@cityofgolden.net](mailto:vauriemma@cityofgolden.net) (Vince Auriemma, the city engineer). Another way of sharing your thoughts would be to check the city website after September 18 for the task force's proposal and either come to the city council meeting on September 25 at 7:00 p.m. (911 10th Street) or e-mail council members at [citycouncil@cityofgolden.net](mailto:citycouncil@cityofgolden.net). Contributions from the Mines community would be valued and appreciated.



## CAREER CENTER EVENTS

### Week of September 1

#### Presentations for Career Day Readiness

Monday, September 1

**US Citizens Working Internationally** by Kay Godel-Gengenbach, CSM  
5:30-6:30 Ballroom A Bring your dinner with you

Tuesday, September 2

**No Experience – Not True!** by Kelly Satterfield, Lockheed Martin  
Noon-1 Ballroom A Lunch provided

**Internships & Co-Ops – Advice from the Rig**  
by Jeff Carlson, Office of Inspector General  
5:00-6:00 Ballroom A Bring your dinner with you

Wednesday, September 3

**Interview Skills & Strategies** by Rob Carlson, CoorsTek  
Noon-1 Ballroom A Lunch provided

**Preparing for Success – Search & Research**  
by Robin Dempsey, Mines Grad  
6:00-7:00 Ballroom A Bring your dinner with you

Thursday, September 4

**Dress for Success** by Kevin Gamble, TetraTech  
Noon-1 Ballroom A Lunch provided

**International Students – Successful Web Around US Job Market**  
by Brandon Samter & Alyda Morosco, CSM International Student Services  
5:00-6:00 Ballroom C Bring your dinner with you

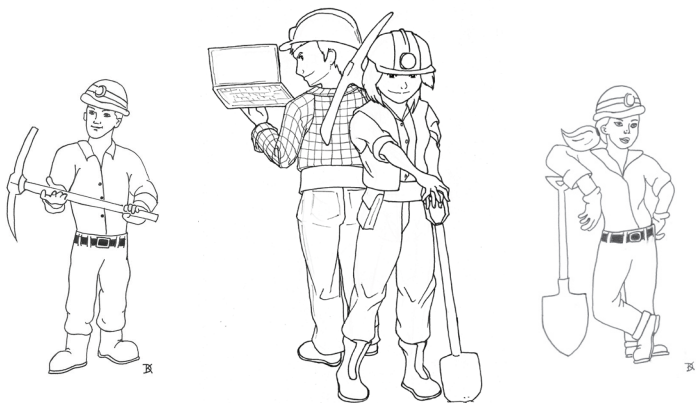
#### COMPANY INFORMATION SESSIONS

Wednesday, September 3  
The Shaw Group 5:00-6:00 Ballroom C

**SIGN UP FOR WIRED ON DIGGERNET BEFORE SEPTEMBER 3 – APPOINTMENTS ARE FILLING UP!!**

(Please go to DiggerNet and sign up for these events so we can calculate food and/or handouts! Check DiggerNet for any additional events, or changes to the room or timing of events.)

Molly Miner & Digger Dave Election too close to call! If you did not get to vote at Celebration of Mines, vote in the Career Center as you pick up your Career Day Guide and find out about the week's Career Day Readiness Workshops - every day Monday-Thursday. OR send an email to careercenter@is.mines.edu with MollyMiner and DiggerDave in the subject line. Voting will end on September 3 and a winner announced in next week's Oredigger!!!!



## Al-Jazeera presence, cultural clash in Golden

CONTINUED FROM PAGE 1

"I welcome people of all kinds to our community, any groups of all kinds," Dale said. "If Al-Jazeera wants to come here, fine. If CNN wants to come, fine. If Fox wants to come, fine. I believe in our Bill of Rights, I believe in what America stands for is that all people are free."

James Morris, a veteran and father of a veteran, offered dissent with these perspectives. "The First Amendment is very important to me as well," he said. "But you can't walk into this room and yell 'Fire!' when there's no fire. Freedom of speech only goes so far."

Golden resident Rick Bahm said, "I understand, in part, when you mention the First Amendment. But we are in a war on terror. Al-Jazeera has a connection [to terrorists] in the way they produce and what they broadcast."

Julie Beckwith has boarded Middle Eastern students who attend the Colorado School of Mines (CSM) and noted that she has the personal experience of watching Al-Jazeera with one of those students. "I really feel that we have an opportunity here to show millions of people around the world who will be watching what kind of country we live in, and what kind of community we live in," said Beckwith. "I think we have good reason to hear what they have to tell us. The fact that we allow [our community] to be shown and the fact that we welcome them and the fact that we interact with them with dignity and that we treat them with dignity and not with hate and not with fear will say volumes to millions and millions of people all over the world."

Leslie Olsen, retired head of the CSM International Student Services

office, said "Al-Jazeera prints what they see. They don't twist it - they show you what's going on and give you the truth. If we don't welcome them, if we send them back because we're worried about terrorism, if



PATRICK BESEDA / OREDIGGER

we're worried that they're going to show something nasty, what is that going to say? If you welcome them with hate and xenophobia, the result is not going to be good."

After the general comments were concluded, council members responded to the concerns expressed. Mike Bestor, the Golden City Manager, bore the brunt of the criticism for having offered the use of his backyard for a barbecue for Al-Jazeera. Bestor responded by rescinding his offer, claiming that "it is not my role to create divisiveness in the community. It's not my role to insert myself that it looks like the city is 'rolling out the red carpet.'"

"From what I read," said Colorado Representative Gwyn Green, "he was trying to present the way normal, average, everyday Americans live, and how they celebrate life in a

small town like this, or anywhere." District 1 Councilor Marjorie Sloan said, "It's difficult to distinguish his private life, in the situation, from his title as City Manager. I was willing to support his decision to have the barbecue in his backyard as a private matter, but I was more willing to support him in taking back his offer."

After the meeting, Sloan offered more personal thoughts on the controversial events. "I thought it was an exercise in democracy. From a city council, decision-making viewpoint, we never had a decision to make. There is no reason and no authority to keep Al-Jazeera out of Golden." As a private citizen, Sloan claims to have had "no problem with them coming."

Joe Behm, a Councilor from Ward 2, had a unique insight into the issue. "I can give you some examples of freedoms we take for granted that [the Chinese] can't," he said. "No public demonstrations without a permit and they don't issue a lot of permits. During the Olympics, they issued none. We all have a choice to agree or disagree with spin that any news agency may put on reporting or on journalistic stories."

"Of course other countries want to know what we're like," said Green. "Don't you think that they're a little concerned about the direction that the United States have taken? They have a right to their own media coverage [of the DNC]. And I want to know how the United States are perceived by other countries and then I want to know whether we deserve that or not."

Mayor Jacob Smith offered the last words of the evening. "The First Amendment requires us to protect freedom of speech... even when that includes views offensive to us."

## STUDENTS

YOUR STUDENT BODY PRESIDENT, KEVIN DUFFY, INVITES YOU TO THE FIRST ASCSM MEETING OF THE YEAR.

ASCSM meetings begin September 11th and continue to run every two weeks throughout the semester.

**All meetings are held at 7 PM in Student Center Ballrooms A and B.**

**Agenda Items Include:**

- > Affirming Student Government Priorities for the 2008-2009 School Year
- > Membership Confirmation for Various Committees

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# Geek of the Week

...Sarah Le, Sophomore: Elec. & Mech. Engineering

Tim Weilert  
Content Manager

**[Oredigger] Do you consider yourself a geek?**

[Le] I'm not sure, I guess to the outside world... yes?

**What is the geekiest thing you've ever done?**

I put LEDs in everything. I put lights in my hair, prom dress and prom shoes.

**You do a lot with robotics; what is the most interesting thing about working with these machines?**

I think they're a lot of fun. In competitions, I was the driver, and it was a lot of fun playing the game. Another part of it is when the robotics club has helped out senior design teams with their lunar rovers.

**Will robots eventually take over the world? Will it be more like The Matrix or Terminator?**

I don't know! I don't think robots will actually take over the world, but it would probably be more like Futurama.

**You keep a pretty packed schedule, but what do you enjoy in your downtime?**

In the wintertime, I usually go snowboarding or ice skating, pretty much any type of winter sport. Also just hanging out with friends at the movies or playing video games with them.

**Favorite Music / Book / Movie?**

For music, I pretty much like everything, I could listen to anything from country to pop, hip-hop, rock and all that good stuff. Books, my favorite author is Terry



TIM WEILERT / OREDIGGER

**Femme-Bot or Not.** Le is an avid member of the robotics club, who can be spotted with LEDs in her hair.

Brooks. And for movies I can't pick a favorite because I usually have a collection of about 300 movies and I don't even know what I want to watch again, because I want to watch them all.

**Who is your hero?**

My original robotics coach, Daryl Lusk. He was my coach for three years and he's the one that started this whole robotics craziness for me, and got me into it.

**What is one thing you love about Mines and one thing you want to see changed?**

One thing I like about Mines is all of the people I've met who are similar to me and have the same kind of dedication for what they love. What I would love to change about Mines is to have them pick up a robotics engineering degree.

**What is your favorite class**

**this semester?**

Right now I'm taking "Precision Machining" at Warren Tech through Red Rocks Community College. That's my favorite class right now because my other classes are Human Systems, Economics and Calc III.

**Any plans for the future?**

I'm actually not sure about where my career path will be. Whether it involves robotics or not, I will probably be doing mechanical engineering or electrical engineering, or a situation that includes both.

**Any last words?**

Join the robotics club, it's really fun!

Would you like to nominate a friend for Geek of the Week? Send an email to [oredig@mines.edu](mailto:oredig@mines.edu) and see your geek featured.

## Mines health myths

Anne Wilfong, FNP  
Guest Columnist

Greetings from the Student Health Center! We hope everyone had a wonderful, productive summer. We're looking forward to seeing new faces this fall, as well as reconnecting with the familiar ones.

Our goal this year is to educate everyone about the services offered at your health center. Many students are not aware of who we are and what we can do. To clarify misconceptions and to give you the information you may need, from basic health issues to health center policies, we'll be writing a series of articles during the coming year to help acquaint you with what is available.

Here are some of the most common "myths" or misunderstandings about the SHC, followed by the reality.

1. *If I don't have the CSM student health insurance plan, I can't be seen at the clinic.*

Reality: Your fees allow you to be seen at the SHC, regardless of your insurance plan. Insurance and fees are hard concepts to wrap your head around sometimes. You pay a \$47.80 fee each semester (if you're taking more than four credit hours). This fee allows you access to the SHC, and covers the medications, equipment, and evaluations — FREE.

2. *I can only go to the SHC during Doctors' Hours.*

Reality: The SHC is staffed with nurses and nurse practitioners all day. We can see you for any problem that you have. No need to wait till 3 p.m. to see a health care provider. And not every problem needs to be managed by a physician! We prefer to use the physicians' time wisely—their expertise isn't necessary for a sore throat or runny nose, but rather for the more complex medical issues. Nonetheless, if a nurse decides your situation is significant enough to warrant a physician's evaluation and opinion, we will make sure you get back in during doctors' hours!

3. *I can't get prescriptions written without seeing a doctor first.*

Reality: The SHC is staffed each day by a nurse practitioner. NPs are able to write prescriptions. An NP, however, may request that you talk to a physician before honoring some prescriptions.

4. *I have to be evaluated by a nurse for every little thing!*

Reality: Some common ailments that may only require some over-the-counter medications do not require a health evaluation. For example, you can request Sudafed or cough syrup for a simple cold, a little ibuprofen or Tylenol for an ache or strain, or a bandaid for a cut or road rash. We will ask you to sign in, though, so we can document what was given.

5. *I have to make an appointment to see the nurse or doctor.*

Reality: The only appointments we mandate are for the dentist and for well woman exams (annual Pap smears, birth control starts, etc.) We may ask you to schedule an appointment for a lengthy visit with a nurse practitioner (such as depression evaluations, or reproductive issues) but that is often at the discretion of the provider.

6. *If I have the CSM SHIP, I can always be seen at the SHC.*

Reality: Even with the CSM insurance, you have to be enrolled in classes to be seen at the clinic. That's because when you enroll, you pay the SHC fees. And, if you are NOT enrolled, you can't pay the SHC fee to be seen. So, if you're enrolled in a field session, we can see you during field session. If you only enrolled in field session and want to be seen during summer session, we'll direct you to an alternative site. We know it's confusing and frustrating, but it's a liability issue, as well as a fee issue.

7. *I can pay for my dental appointments with my Blaster Card or credit card.*

Reality: The SHC has no card reading capability for either Blaster cards or credit cards. Any charges we collect will need to be cash or check. We'll direct you to the nearest ATM.

8. *The SHC will handle any billing for me.*

Reality: The SHC does not do any form of insurance billing. If you have private insurance (not CSM SHIP) and we send off a lab test for you, and the lab's bill can be either mailed to you or your insurance holder (parent, spouse). Or, we may have you fill out all your insurance info on the lab request, or we'll copy your card and submit it with the lab. Then the lab can directly bill your insurance company. We have no way of knowing what your insurance company does or does not cover. But, if you carry a strict HMO plan like Kaiser or TriCare Prime, we won't even offer to do your lab—you'll get stuck with the entire bill. To avoid that, we'll suggest you go to your provider there for whatever needs to be done.

9. *I have to pay a copay for my visits at the SHC.*

Reality: No copays are assessed at the SHC because we don't process insurance (see above). If, with the SHIP, you see a provider outside our clinic, then you will pay a copay.

10. *If I don't have the CSM student health insurance plan, I can't be seen at the clinic.*

Reality: See #1 above. We can't stress this enough. If you are a CSM student taking four or more credit hours, you are paying the SHC fee, and you can be seen, regardless of what health insurance policy you carry.

### TECHNICAL & COMMERCIAL STUDENTS

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## Obituary

**Ronald S. Nelson**

52, passed away unexpectedly on July 28, 2008. Ron had a passion for living and enjoyed marriage to his beloved wife of 26 years, Nicole. Together they ran successful businesses, and raised three sons. He proudly served two terms in the Air Force. Ron is predeceased by son Austin; and is survived by wife Nicole; sons Andrew and Aharon (Jedy); sister Diane (Ted) Richards; brother Tom Nelson; a host of dear family and friends; and his beloved dog, Baby. Ron will be sadly missed by those who love him. Donations suggested to: In Memory of Ron Nelson; Colorado School of Mines Foundation, 1600 Arapahoe St., Golden, CO, 80401. For complete biography/tributes see: [www.MEM.com](http://www.MEM.com).





# Democratic National Convention comes to Denver

PHOTO: ANANT PRADHAN / OREDIGGER

## Energy horizon looking sunny

Jason Fish  
Content Manager

Al Gore gave his customary comments on the severity of the climate crisis while joining the slew of speakers endorsing Barack Obama last Thursday night.

Yet, amid frequent references to the “botched” 2000 presidential election, Gore’s central statement focused on energy resources, a key issue in this year’s race, and an increasingly important factor in everyday events.

“The solutions to [the climate crisis, the problems with the economy and national security issues] require us to end our dependence on carbon-based fuels,” said Gore. “We need to invest in American innovation... How did this no-brainer become such a brain-twister?”

Gore left the stage, appropriately to the tune of the Fifth Dimension’s “Let the Sun Shine,” but the theme of energy was not to come solely from the former vice president.

During Barack Obama’s acceptance speech, he reiterated the problem of dependence on foreign fossil fuels, and emphasized the major delays in addressing this issue. “Washington’s been talking about our oil addiction for the last 30 years.”

The Illinois senator listed a litany

of areas in domestic and renewable energies where research and funding have floundered, and pledged his goals to change the situation while in office.

“As President, I will tap our natural gas reserves, invest in clean coal technology... I’ll invest 150 billion dollars over the next decade in affordable, renewable sources of energy—wind power and solar power and the next generation of biofuels.”

After events like Three Mile Island and Chernobyl, many citizens have been skeptical about using nuclear technology, even decades later. Yet the applause and cheering never faltered as Obama endorsed the safe harnessing of this embattled energy source.

Obama further stated he would work to help America’s auto companies restructure their systems so fuel-efficient vehicles will be manufactured in local factories. The candidate’s speech focused on creating jobs for Americans and funneling this effort into the energy industry as one of the biggest arenas.

Alongside the energy issue, building a sustainable, green America was a major convention theme. Seven-Star Inc, a North Carolina event production company specializing in green practices, was

hired to organize a comprehensive recycling program. Volunteers from Denver, as well as a number of students from Colorado State University, were tasked with directing convention-goers to appropriate waste bins and sorting misplaced items before packing bags of recyclables into roll-off containers.

All kinds of plastic, glass, aluminum, cardboard, newspaper, office waste and even food (in compost bins) were collected. Biodegradable utensils and cups were provided for many of the events. While volunteers and Seven-Star representatives declined to answer most questions, the energy and cost-saving features of the recycling program were promoted across the convention, supporting the politicians’ credos.

Should Obama claim victory in November, it will remain to be seen if the mentality changes needed to move renewable energies into the mainstream occur. Economically, international companies like Siemens Wind Power and Vestas (also wind) are finding America to be ripe for growth, with wind turbine factories, wind farms and cooperation with universities in research coming to fruition.

SEE “FOCUS” PAGE 6

## Concert For A Cool Climate

Tim Weilert  
Content Manager

Some big names came to town last week as the Democratic National Convention turned the Mile High City into one of the biggest parties of the year. Denver became like Austin during SXSW; almost non-stop live entertainment and music filled downtown until the odd hours of the morning. The League of Conservation Voters, an environmental advocacy lobbyist group, hosted an exclusive invite-only shindig with a musical performance by special guests Ben Gibbard and Chris Walla of Death Cab For Cutie.

Downtown Denver is home to a number of beautiful old buildings that have been renovated into music venues and dance halls. The 102 year old Sherman Center, where this particular concert was held, provided incredible acoustics and an attractive vintage facade.

The concert began with Graham Colton, a singer-songwriter from Oklahoma. “I normally play with a full band,” explained Colton as he transitioned between songs. Even without a backup band, Colton’s smooth vocals

and acoustic guitar helped set the mood for the night. As he finished his set, the crowd began to gather in and anticipate the headline act.

However, no DNC party would be complete without a little political preaching. LCV’s president Gene Karpinski took the stage and introduced a number of politicians with environmental agendas. The crowd became excited as Democratic congressmen and senators from across the country voiced their support for renewable energies, and disdain for the current administration. “Obama” was the keyword that night, as it always managed to garner applause and cheering from concertgoers. Finally, Washington state governor Christine Gregorie took the stage to introduce the guests of honor.

Ben Gibbard and Chris Walla took the stage and embarked on a musical exploration of some of Death Cab’s best songs, performed with simple arrangements and acoustic instruments. Even though their newest album **Narrow Stairs** was released only a few months ago, they did not focus entirely on playing new material.

SEE “CONCERT” PAGE 7

## Nader rallies for three-party debates

Akira Rattenbury  
Staff Writer

Ralph Nader led a no-holds-barred shootout against Democrats and Republicans in Denver last Wednesday, just miles south of the Democratic National Convention. An independent presidential candidate, Nader headlined a full evening of speeches aimed at opening up the presidential debates to third-party candidates, all while former President Bill Clinton and others spoke in the Pepsi Center on behalf of Barack Obama.

“If we were ever on the debates, we would have a three way race,” said Nader alluding to his appeal to real Americans. “We don’t ration the weather report, we don’t ration the sports... so why do we ration the debate?”

In the same tone as similarly-dubbed “Super Rallies” from his 2000 bid for the presidency, celebrities, musical guests, and alternative candidates took the main stage at Magness Arena on the Denver University campus. From 7 p.m. until well past 10 p.m., speeches called for an end to the two-party dominance of the political system.

“We have a system which supports this two-party monopoly,” said Cindy Sheehan, known for her outspoken opposition of the Iraq

War. “The reason they don’t want alternative voices is because they don’t want Americans in the mainstream to hear voices of peace, to hear voices of accountability.”

Currently pursuing a bid for the United States Congress, running against incumbent House Majority Leader Nancy Pelosi in California, Sheehan reiterated her view that the two major parties are essentially the same by calling them “the twins” and lumping them together as “the corporate war party.”

“I say if you vote for McCain or Obama, you are throwing away your vote,” she said in support of voters who vote their conscience and avoid the failures of the two parties. “They don’t want their disease pointed out. They don’t want their disease cured.”

The rally featured celebrities Brook Smith of Grey’s Anatomy, actor Sean Penn, and musician and Boulder native Jello Biafra. Music from Tom Morello of Rage Against the Machine, Nellie McKay, and Ike Reilly was mixed in between the speeches and pumped up the crowd. Campaign officials estimated that 4,000 attendees came to rally.

SEE “DEBATES” PAGE 6

## How much energy does it take to fuse a nation?

Zach Aman  
Editor-in-Chief

In a political landscape wrought with predictable labels and dull definitions, this season’s Democratic campaign carries an unusually captivating ace card in its back pocket – energy.

Primed with music from Sheryl Crow, John Legend and Stevie Wonder, the audience sent over 30,000 text messages of support throughout the evening. Each successive speaker brought the crowd to a new level of excitement, further preparing them for the much-anticipated nomination speech of Senator Barack Obama.

Former Vice President Al Gore offered a unique parallel between Barack Obama and Abraham Lincoln. “Before he entered the White House, Abraham Lincoln’s experience in elective office consisted of eight years in his state legislature in Springfield, Illinois, and one term in Congress – during which he showed the courage and wisdom to oppose the invasion of another country that was popular when it started but later condemned by history,” said Gore. “The experience Lincoln’s supporters valued

most... was his powerful ability to inspire hope in the future at a time of impasse. In 2008, once again, we find ourselves at the end of an era with a mandate from history to launch another new beginning.”

Before Obama took the stage, four Americans claimed the podium to share their personal stories. “I am a lifelong Republican,” explained Pam Cash-Roper, “that voted for Reagan, Bush and Bush, but I can’t afford four more years of this.” Barney Smith also discussed his intimate experience with out-

sourcing jobs. “Today, a foreign worker does my job,” said Smith. “Republicans talk about putting country first, but they sent my job overseas.”

Even as inflammatory speeches and political buzzwords have become commonplace to many Americans, the stadium’s audience reacted hungrily to each passing word. The crowd’s fervor shook the floors of the stadium and deafened all within its walls.

As the lights dimmed and a video of Obama’s personal life story began, a pin drop would have been audible. Set to the soundtracks of *A Beautiful Mind* and *The Devil Wears Prada*, the video outlined his first introduction to now-Michelle Obama,

their humanitarian experiences in Chicago and the background of his current values structure.

Beginning his nomination speech, Obama’s sincerity seemed to resonate with each attendee. “I stand before you tonight because all across America something is stirring,” he said to a beaming audience. “What the nay-sayers don’t understand is that this election has never been about me. It’s been about you.”

Throughout his speech, Obama shared his personal sources of inspiration, including his aging grandmother. “I don’t know what kind of lives John McCain thinks that celebrities lead,” said Obama, “but this has been mine. These are my heroes. Theirs are the stories that shaped me. And it is on their behalf that I intend to win this election and keep our promise alive as President of the United States.”

Once he was finished, fireworks rose up from the stadium into the night sky. While music shook the tented seats of Fox News and CNN, balloons and confetti swirled around the crowd.

While television cameras spun, desperately trying to capture the evening, the energy of the crowd was embodied in a single text message on the JumboTron: “**the dream is coming true.**”



# The other side of convention journalism

**Jake Rezac**  
Staff Writer

The DNC, according to most, is an event specifically aimed at the press. The way the media was treated certainly emphasized this idea. From tents with free bars and massages, to special places to dine and special access to politicians, the press – more or less – had it made at the convention. However, despite all this special treatment, the media presented themselves very poorly. They were arrogant, mean-spirited, and acted childishly toward each other.

Arriving at the DNC my first day, I found myself like a tourist, unable to stop photographing of everything I saw. In an effort to get some good shots, I followed the professional photographers, looking to them for advice. This worked out well, as they knew exactly where to take pictures of politicians and celebrities.

However, it also showed me what sorts of people these members of the press were. At one point, when a number of delegates and volunteers obstructed a photographer's shot, of Denver's mayor John Hickenlooper, he pointedly exclaimed, "Why are all these normal people with no security privileges hanging around here?" While this was certainly an untrue statement (volunteers and delegates had security clearances) it revealed how the photographer

felt about people who were not with the media.

Later, when a larger motorcade drove past the group of journalists, someone in the press shouted, "It's Biden!" While a large number of reporters ran towards the motorcade, I overheard the same member of the press

say, "Not only do I know that's not Biden, but I know that press aren't allowed near those cars." The dejected faces of the returning photographers and producers let me know how true that was.

By the end of my experiences at the DNC, I started to feel like a true member of the media. I was given access to the same areas as journalists for the New York Times and CNN. I was feet away from people like Jimmy Carter, Howard Dean, and even Anne Hathaway. If I had been fast enough,

I could have even interviewed these people. But upon further introspection, I'm not sure that feeling like a member of the media was a good thing.

All the perks gave

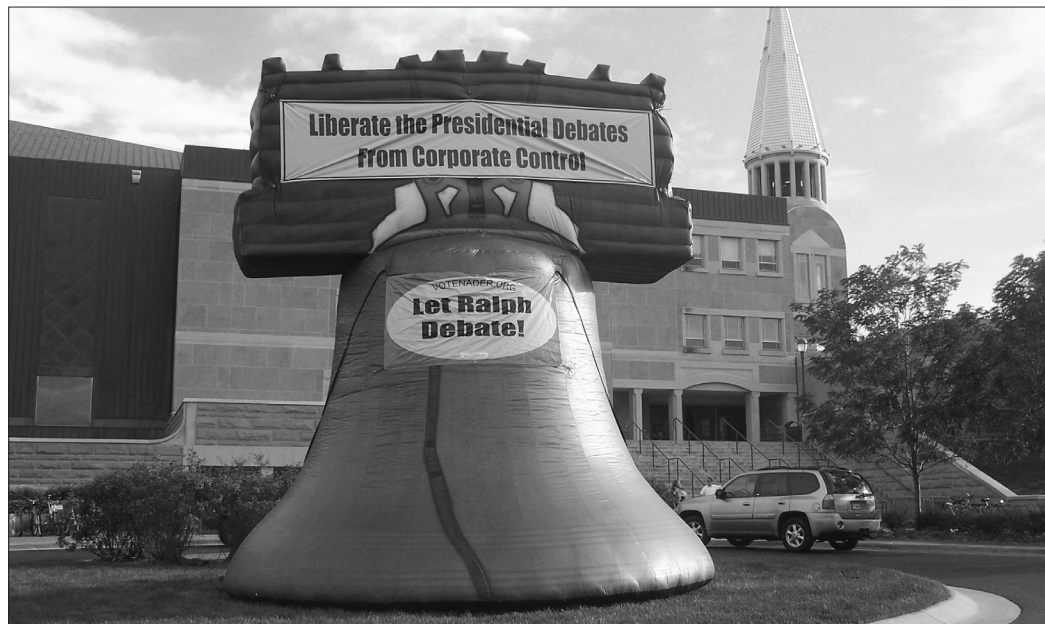
the press a sense of superiority – as though they lived in a world where they could do no wrong. In this world their opinions were as important as the candidates; they could step over anyone in order to get the best picture or the best chance to ask a question. Perhaps the organizers of 2012's DNC should consider what giving so many perks to the media actually accomplishes.

Rather than spending millions of dollars on the members of the press, they should use the money to help ordinary citizens – or even encourage people to vote. After all, shouldn't a National Convention be about getting voters involved in the process? What better way to do this than getting rid of Wolf Blitzer's "Expert Analysis" and introducing John Doe Voter to a candidate? Political conventions may

not receive as many advertising dollars, but they will certainly get more people excited to vote, which may even help their candidate's chances of winning an election.

Rather than spending millions of dollars on the members of the press, they should use the money to help ordinary citizens – or even encourage people to vote.

The DNC... is an event specifically aimed at the press.



AKIRA RATTENBURY/OREDIGER

**It's all about Nader:** Ralph Nader supporters held a rally to open the presidential debates to third parties.

## Debates ignore important voices

CONTINUED FROM PAGE 5

As guests arrived prior to the live speeches, excerpts from television interviews and documentaries featured Ralph Nader and other third-party candidates including Bob Barr, the Libertarian presidential candidate.

Obama was a hot topic and blasted often throughout the evening for approving the Iraq war, Patriot Act, and the recent Foreign Intelligence Surveillance Act (FISA) which many speakers called an affront to civil liberties.

During his speech, Nader called on Obama to stand up against poverty and great social justice issues if elected. "[It] may be an unprecedented career move into the White House, but it's got to be more than that. It's got to mean standing up to the corporate subjugation of the American people, it's got to be pushing forward a war against poverty," he said.

The poor, "who do the most dangerous work for us, who do the most thankless work, who raise our children, take care of our parents, harvest our food, service us in all kinds of ways... while they are excluded, while they are disrespected, while they are marginalized," said Nader, driving home his point by mentioning that "the only time they are held up is when they fight our criminal wars."

Rose Clemente, the Green Party vice presidential nominee, was in attendance representing herself and running mate, Cynthia McKinney, at the rally. An outspoken community activist and youth organizer, Clemente spoke about the right for third-party participation. "We are not an alternative, but an imperative," she said. "The question to Barack Obama and John McCain is, 'What are you afraid of?' Because we are not afraid of you."

She also criticized Barack Obama's youth support for misrepresenting real American youth. "The Barack Obama young people are middle class, mostly white, black, and Latinos... with access to higher education," she said, emphasizing the disproportionate amount of minority youth in jail instead of school and those who are unfairly excluded from the political process.

Asked by a reporter prior to the rally about the role of young voters, Nader replied, "The youth vote needs a kick in the ass!" He continued to assail young people who failed to take charge of American democracy and continue "pummeling [their] minds with junk."

Sean Penn, not endorsing any presidential candidate, came "simply as a citizen" to express his

dissatisfaction with the two major parties. "Each generation's responsibility is to be Constitutional... The Republican and Democratic candidates are both on record for devolving our Constitution," said Penn. "I'm sick of this high school with suits on called the Democratic and Republican Parties!"

Penn closed his speech by inciting the crowd to make sure they stay active no matter who wins the race, "Whoever you vote for, you better hold his ass to the fire!"

Later in the evening, Jello Biafra of the Dead Kennedys verbally attacked the Democrats' "police state" surrounding the Convention. Biafra fired up the crowd more as he elaborated on the failures of the last few presidents, inciting anger about the centrist policies of Clinton. "We will not be Bill Clinton-ed again!" he proclaimed to a cheering crowd. Biafra continued with jeers at the Bush administration's \$300 economic stimulus checks as a waste of time, instead calling for "real stimulus" through a living wage, universal healthcare and rent control.

A lengthy intermission turned into a fundraiser as Brook Smith, who earlier spoke of American voters who were "disillusioned by the centrist candidates," donated \$4,600 to Nader. Several audience members also stood up and donated money to Nader's third major presidential campaign. Many spoke of personal encounters with political veteran and offered thanks for his work to improve automobile safety and advocacy for the creation of the Occupational Safety and Health Administration (OSHA), with which oversees workplace safety in the US.

The crowd inside the arena swelled and became more energetic as Tom Morello from Rage Against the Machine reached out with vivid imagery through a song concerning the tragic aftermath of Hurricane Katrina, ending with, "I hope the flood will come and drown the President." The crowd stood and helped chant the chorus through a politically energized rendition of "This Land is Your Land" by Woody Guthrie.

Volunteers at the rally were vocal about their support for progressive voices such as Ralph Nader. Aaron Ney, volunteer and event coordinator said, "When I look at the state of the country, I see a long pattern of elitist-oriented policies to favor a few when so many are giving so much with well intentioned faith." Ney continued to lament the passing of real debate and discussion of "kitchen table issues at the highest

level. "Ralph Nader and Cynthia McKinney talk about the issues with analysis that rings true with me."

In the atrium outside the arena, next to vendors and other interest-group tables, Bob Kinsey, the Colorado Green Party candidate for the US Senate, spoke out against the Iraq war and why it is the most important issue facing America. "It takes our attention off of energy and global warming," he said. "It takes money away from supporting education."

CSM alumni and Nader campaign volunteer, Emily Przekwas ('08), expressed her support for Nader and disappointment with Obama and the Democratic party, "The Democrats are not doing anything for the progressives in America," she said, citing Obama's dismal voting record on key issues such as the Iraq war, and his campaign's health care policy. "We need a progressive candidate in the debate."

Leaving the rally, a bumper sticker peddler from Wheat Ridge summarized his desire to hear true political debate in American democracy. "We haven't had a viable third-party since the Civil War. It's about time we did!"

Ralph Nader, a graduate of Princeton and Harvard law, first entered politics with his consumer safety advocacy concerning unsafe American automobiles in the 1960s. Nader has risen in national stature with numerous books and appearances to discuss social issues from consumer rights to the environment. According to his campaign, he has worked to form over 100 public interest groups and has worked "for 40 years on behalf of the health, safety and economic well being of the American people."

Nader's influence reached a peak of popularity and criticism in 2000, when many Democrats accused him of spoiling the presidential election for Al Gore.

Nader's campaign platform includes introducing single-payer universal healthcare, eliminating nuclear power, introducing a carbon tax to fund renewable energy projects and impeaching President George Bush. His running mate, Matt Gonzalez, earned a law degree from Stanford and was elected president of the San Francisco Board of Supervisors, overseeing \$6 billion as a Green Party candidate in 2003.

Currently in the polls, Nader is running at 6% nationally and 7% in Colorado. His support pulls from both Republicans and Democrats, especially in swing states such as Pennsylvania.

## Focus on energy at DNC

CONTINUED FROM PAGE 5

Within the U.S. and in line with Obama's promises, corporate executive T. Boone Pickens is pushing a strategy to get America using local and renewable sources for 20 % of its energy consumption by 2018.

Denver mayor John Hickenlooper's 'Greenprint Denver' plan is running full-tilt, 'greening' urban design, public transport, as well as cleaning up parks and improving the standard of living in poorer neighborhoods—all founded on finding solutions for the climate crisis and developing sustainable energy sources.

Finally, the American scientific community, while beleaguered by consistently poor support from the government, is not defunct. Obama's enthusiasm for investing heavily in clean energy will help the efforts of researchers like Klaus Lackner, a Columbia University

scientist who has proven he can cheaply and effectively remove carbon dioxide from the environment, potentially turning it into fuels for a myriad energy demands.

With all this promising talk at the end of the DNC (coupled with the cash and concrete planning of companies and universities), it has at last become possible to look at the energy future of the world, and feel the buzzword of Obama's campaign: hope.

Readers looking for more information on projects like 'The Pickens Plan,' and 'Greenprint Denver,' visit these sites: [www.pickensplan.com](http://www.pickensplan.com), and [www.greenprintdenver.com](http://www.greenprintdenver.com). Dr. Lackner works in the Earth Engineering Center at Columbia. The information on his research in this article can be found in a March blog entry of think tank group 'The Breakthrough Group,' see: [www.thebreakthrough.org](http://www.thebreakthrough.org).





COURTESY TIM WEILERT/OREDIGGER

# Concert review

CONTINUED FROM PAGE 5

In fact, one of the first songs was “Photobooth,” which originally appeared on their 2000 EP **Forbidden Love**. From “Talking Bird” to “Brothers On A Hotel Bed,” every song had a beautiful simplicity. The natural sound, coupled with the warm August air, made the evening play through like a dream.

As the set ended, the crowd cheered loudly and continued until Death Cab For Cutie came back for an encore. The first of their final two songs was a shaky rendition of The Decemberists’ “Engine Driver.” “Colin [Meloy] is going to kill us,” remarked Gibbard as he stumbled over the lyrics. Laughter and cheering filled the auditorium as they finished the song and went right into “The Sound of Settling.” By the time the show was over, every person in the venue was standing, singing along and cheering.

Whether you appreciate their politics or not, Death Cab For Cutie does put on one of the best live shows out there. Even with a stripped down set, they still managed to evoke emotion and excitement from a venue full of politicians, delegates, and other suit-wearing guests.

# Red at the DNC

Sara Post  
Managing Editor

It was a fascinating experience, attending the Democratic National Convention. I’ve never seen that many people so enthusiastic about a politician. No less than 88,000 people were at Mile High Stadium on Thursday night.

It was even more interesting, if possible, for a voter that considers herself somewhat conservative. During Obama’s speech, I found myself applauding more often than I expected. The first time, as I recall, was after he said, “And Democrats, we must also admit that fulfilling America’s promise will require more than just money... we must also admit that programs alone can’t replace parents; that government can’t turn off the television and make a child do her homework; that fathers must take more responsibility for providing the love and guidance their children need.” It’s hard to disagree with that. It’s also, frankly, a departure from the general Democratic philosophy that government can fix all of our problems. That was present as well, both in Obama’s speech and in others.

The optimism was generally catching. There were people at the convention of every stripe, and most of the folks I saw sported some indicator of support for Obama. While I was there, it was hard to believe that there is enough bitterness left over from Hillary’s defeat to hurt Obama much. There were a few obvious Hil-

lary supporters, but I don’t recall any that were terribly vocal. When Nancy Pelosi took the vote Thursday night, she didn’t have to say, “all opposed say nay.”

Perhaps the most interesting place on Tuesday was outside the outer security perimeter. Hawkers lined the streets the whole way – t-shirts, pins, watches (“What time is it? Time for change!”) – and a variety of protestors were situated strategically at intersections, where they were hard to escape. I saw one man with a pro-Fox News sign on my way in. Do people attach themselves to media organizations now? Seriously? On my way out, there was a man with a sign that claimed that Hillary is a Jezebel and wants to kill babies. Thursday, we were treated to posters that warned us that we were going to hell. For attending the DNC?

I suppose it would be best, at this point, to note that although I certainly consider myself more conservative than liberal, I am not at all religious, I am pro-choice, I support gay marriage, and I am extraordinarily skeptical of politicians in general. I guess it would be fairest to paint me more as a libertarian leaning right.

This brings me back to Obama’s speech, the only major one I saw. (I missed Gore while trying – and failing – to reach the floor of the stadium. That’s okay.) Actually, let’s get back to a couple of people that spoke before that. A few folks from around the country were invited to speak at the DNC to explain why they are going to vote for Obama. They talked about losing jobs, being unable to pay for healthcare, raising kids and sending them to college, and affording retirement. And you feel for them – I did. There was a lot of talk, from all of the speakers, about a president that sends jobs overseas, a president that gives tax cuts to big corporations, a president that lead his country into a misguided war.

Now, last time I checked the Constitution, sending jobs overseas and giving tax cuts were not included in the presidential purview. Yes, Bush asked for tax cuts – and Congress created them. Did he send jobs overseas? No, companies did. Are they allowed to do that? Yes. It’s not a nice thing to do, no. It is part of globalization – and we buy cheaper goods from places like Walmart because of it. And you can take issue with that, but only if you don’t shop at Walmart for the lower prices. I sound heartless, but these things are driven by economics, not a branch of science known for having a heart. And I also don’t think that the government should be closing us off to globalization – I’m inclined to think that it’s going to be good for the world. I also don’t want the government that closely involved in the market. As to that last thing, a misguided war, I would like only to observe that the Democrats have gone from saying that they will end the war within the year to saying that they will “end the war in Iraq responsibly.” That phrase (or a very slight variation) is contained within every speech given at the convention that mentioned Iraq.

Back to Obama. He took pains in his speech on Thursday to emphasize that the government can’t solve problems by itself, the people have to help. He said, “That’s the promise of America – the idea that we are responsible for ourselves, but that we also rise or fall as one nation; the fundamental belief that I am my brother’s keeper; I am my sister’s keeper.” It sounds nice, doesn’t it? But you’ll excuse this libertarian leaning right for thinking that she doesn’t want any keepers.



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FROM 9 PM TILL CLOSE

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**\$4.00 PITCHERS**  
**\$1.50 DRAFTS**

7 PM TO 12 AM: \$2.00 JAGER, JAMESON, CUERVO GOLD, DR. MCGILLICUTTY’S VANILLA

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# What We Did On *Your* Summer Vacation

Summer is that nice, quiet time when we in Academic Computing and Networking (AC&N) get to relax, refresh, and renew.

Yeah, right.

In addition to supporting field sessions, summer session, and numerous special activities and events, AC&N staff, with our colleagues in Information Services, work doubly hard all summer to prepare for the next academic year. So, what did we do for your summer vacation this year?

Deep breath...

We replaced over 150 computers in seven labs across the campus using funds that were mostly provided through your technology fees. (An additional 205 computers in six other labs were replaced last spring semester.) Six academic departments were brought into the ADIT Windows domain, to simplify your life and allow you to more easily move be-

tween computer labs. Several classrooms and computer teaching labs around the campus were updated with new projectors and teaching technology. The Macintosh lab in CTLM B62 became fully operational, wireless network access was upgraded and expanded, and the Blackboard Learning Management System and other applications were updated.

AC&N continued to work with the Colorado Department of Transportation to acquire and install dedicated fiber optic cable to downtown Denver, where we connect to the Internet and other research networks. That project is underway and we are also working to connect the Ford Garage and Jones Road properties to the campus network.

Mines installed a super-computer last spring. Ra is the name of the high-performance computer that will allow researchers from Mines, NREL, and other organizations to conduct energy-relat-

ed research. Work continued on a new "www.mines.edu" website which we hope to launch in September. Trailhead (your portal to multiple CSM online services) was improved again. A new web-based Virtual Private Network (VPN) was installed this summer. There's now even a way (called Secure Meeting) to share your computer screen on the network and collaborate with friends.

If you are new to the campus, welcome, and be sure to let us know if you have questions or need help with computing issues. Our improved Helpdesk -- <http://helpdesk.mines.edu/> -- lets you contact us quickly and conveniently online.

If you are returning for another year, we hope you will enjoy, and more importantly benefit from, the changes we made this summer.

**Derek Wilson**  
Chief Information Officer  
Colorado School of Mines

## CSM Website is (Almost) New Again

Last redesigned in the 1990s, the Colorado School of Mines website has been looking a little -- how can we say it? -- 20th century for some time now. But the website, CSM's face to the outside world, is now undergoing a dramatic redesign. When it goes online, the new <http://www.mines.edu/> will be vastly changed, with much different appearance and content than today. The new Mines site will present a sharper, more professional appearance to prospective students, their parents, and donors.

The tens of thousands of pages of current content, including departmental websites -- all of crucial importance to the Mines community itself -- will still be available on a new, inward-facing sister website. Through the magic of computer programming, the school's current web addresses will find themselves translated automatically to that new site, to be found at <http://inside.mines.edu/>.

Watch for the new sites, scheduled to appear in September.

## Protecting Your (Virtual) Privacy

You're at home, sitting at your computer, and you want to connect to a particular Library database. Or perhaps you want to run a program that checks with a CSM server to verify its license. Or you might even want to connect remotely to your own computer on campus. But you will likely fail, because the Mines network will not know that you're really a bona fide user of the campus network.

Enter the "Virtual Private Network" or VPN. VPN uses an encrypted connection to the CSM network to make it appear that the connection is taking place on campus. At that point, the user can access any resource that would be available if she actually was on campus.

VPN services have been available for years at Mines, through a downloaded program manually installed on individual computers.

Now, however, users can skip that step and access the campus VPN through a web page, at <https://secure.mines.edu/> (note the "https" rather than the usual "http"). The connection is fast, secure, and private.

Give it a (virtual) (encrypted) (private) spin today.

## ADIT is Not Just a Hole in the Ground

Adit 'ad'it' noun : a nearly horizontal passage from the surface in a mine; a mine entrance.

ADIT is also the name of the primary academic Windows computer domain on campus. In fact, six more academic departments joined ADIT this past summer in a move that leaves Metallurgy, Chemical Engineering, and Petroleum Engineering the only exceptions. This marks a major shift from the way academic departments have done business in the past and, frankly, the change has been a little painful for some. So why do it? Is this just another attempt at world domination by the Computing Center? Why is this change important and what do you gain from having a single ADIT Windows domain campuswide?

In very practical terms, this change allows us to take a huge step forward in terms of support for you, the customer. Having the ADIT domain means that you can now sign in to Windows computers in almost every department with the same computer account. It

means that you only have one Windows password to remember as your busy schedule takes you from department to department for your classes. It means that when you log in to a computer, you have the same desktop no matter where you are. It means that you have access to all of your files without any extra effort -- no more arcane drive mapping commands to get to your Engineering files from the Library, and no more hassle of duplicating your files and trying to synchronize them across departments.

In short, it means that you have the same computing environment and experience no matter where you log in to do your work; making each computing session more efficient and, hopefully, more productive. The fact that this change also helps your professors work on their class at their desk and then present the material to you in any number of common classrooms across campus...that's just icing on the cake.

## How Fast Do You Want to Go Today?

Last spring and over the summer CSM acquired and installed a high-performance-computing (HPC) cluster to bring exceptional computing power to research in the energy sciences. The supercomputer, called Ra, will be administered by the CSM Golden Energy Computing Organization (GECO).

Ra will be an integral part of a recently approved five-year program between Engineering Physics and Computational and Applied Mathematics. This program allows physics undergraduates to complete an M.S. degree focused on scientific computing.

An analogous program will be instituted for Petroleum Engineering, and a Ph.D. minor in

High-Performance Computing is also planned. In order to better serve the Denver industrial sector, a Professional Certificate in High Performance Computing will also be created. Finally, the new facility will enable CSM to implement a training program in HPC maintenance—viewed by the faculty as a critical aspect of HPC education.

About 50 researchers, both faculty and students, attended workshops offered by GECO on using Ra over the summer. The materials from these workshops and the schedule for future workshops can be seen at <http://geco.mines.edu/workshop/>.

Faculty researchers can obtain an account and time on Ra by submitting a proposal using the form at <http://geco.mines.edu/proposal/>. Students who are sponsored by their advisors can also have an account on Ra. In addition, some computing classes will have access to the machine.

For additional information on Ra and the GECO project please visit <http://geco.mines.edu/>.

## Computing Moves to the Dark Side

Unused fiber-optic cable -- sometimes known as "dark fiber" -- is being used to increase the speed of CSM's link to the outside world dramatically. The Colorado Department of Transportation, Colorado School of Mines and other Denver metro higher-education institutions have collaborated on an advanced fiber-optic network project that will increase CSM's external connection speed this fall from 155 megabytes/second to 1 gigabyte/second. In less than three years, that speed will increase to 10 gigabytes/second. One day, the connection may be more than an order of magnitude faster.

With funding provided by CSM and labor by CDOT, this collaborative effort is a win-win situation for CSM and CDOT. It will enable CSM to replace its leased 155 MB OC-3 line with a permanent high-speed fiber optic link to our Internet service provider. It will also enable CDOT to put to use its unused, "dark" optical fiber to use and activate permanent roadside informational signs on 6th Ave. just west of the CSM campus.

This collaboration is an exciting opportunity for both Colorado higher education and CDOT, since neither organization could have done this work on their own.



AC&N's super-computer, "Ra."

### Did You Know?

The CSM supercomputer was named after the Egyptian sun god, Ra. Ironically, the hardware for Ra was not provided by Sun Microsystems, but by Dell.

## Help!

Need computer support? Need help with your financial aid package? Can't log into Blackboard? The Mines Help Center (MHC) -- sometimes known as "the Helpdesk" -- is a one-stop, online way to request many kinds of support on campus. Visit <http://helpdesk.mines.edu/> and see for yourself.

Through MHC, students, faculty and staff can get the help they need from Academic Computing and Networking (which includes support for email, web services, most computer labs and classrooms, most office and classroom technology, Trailhead, Webmail, Blackboard, telephone services, network services, and some software); Information Services; Financial Services; Financial Aid; the Registrar; Admissions; and Human Resources. When you have a

problem in one of these areas, you can always visit their offices or call them on the phone, but it may be much faster to request support via the MHC.

Many of the benefits of using the MHC are behind the scenes. Your requests can be routed more quickly to the appropriate support group, your requests can be handled in a first-in, first-out fashion. And we can identify trends more readily, to improve our own efficiency. As a result, we'll process your requests much more quickly and effectively than ever before.

To request support via the MHC, go to the web page at <http://helpdesk.mines.edu/> and provide as many details as possible to help us solve your problem on the first try. You'll receive an email confirming your request.

## 'Secure Meeting' Puts Your PC Desktop in Cyberspace

Have you ever wanted to share your computer screen on the network? Maybe you couldn't wait until the next project meeting to show a computerized model you've been working on? Now with a new AC&N service called Secure Meeting it's easy to share.

Secure Meeting facilitates online collaboration by providing an easy and fast way to setup a secure, virtual meeting with anyone in the CSM community.

To get started setting up a Secure Meeting, log in at [https://secure.mines.edu](https://secure.mines.edu/) and click the "Meetings" icon on the upper right. If you have received a Secure Meeting invitation you may login at

<https://meeting.mines.edu> (in both cases, be sure to type "https" rather than the more common "http"). Collaborate!

### Did You Know?

Each student, staff, or faculty member at Mines is entitled to at least three computer accounts. For maximum access to CSM computing resources, use your Ekay Ekey to sign up for (1) an ADIT (campuswide Windows domain) account; (2) an email (sometimes known as a "kerberos") account; and (3) a Trailhead (campus portal) account. See the web page at <http://newuser.mines.edu/> for more details. (And if you don't have an Ekey, request a new one at the Computer Commons front desk, CT156.)

## Better Network. Better Network. (Wait a minute -- that's redundant!)

The computer network doesn't fail often here at CSM. But with upgrades to the system made this summer, it will function even more reliably than before.

Paid for by CSM Tech Fee funds -- money contributed equally by the school and by students to the Technology Fee -- the new, redundant network technologies include a new network router and many new fiber-optic links between buildings.

This means fewer and shorter network outages.

## Trailhead Shows off New Tricks

If there's one place to get "paper" work done online, it's the campus web portal, Trailhead, at <http://trailhead.mines.edu/>. Trailhead pulls together data from a number of different systems and makes it available with a "single sign-on system" -- log in once, and access many services without logging again.

On Trailhead, students may register for classes, see their grades, print transcripts, accept financial aid, and even pay bills through this gateway website.

Faculty may view course lists, assign grades, view the schedules and records of their advisees, and find email addresses of students.

Mines employees may also access their pay information, review tax information, attendance records, and (for those so authorized) review campus financial records.

Over time, even more services are scheduled to be brought into Trailhead's orbit. Login again -- and again -- and see what's new.

## A Rumor? -- Or /s It?

**True or False:** An Einstein Brothers Bagels shop will open on campus next semester.

**Answer:** To paraphrase the Magic 8-Ball, all signs point to true. A caffeine and cream cheese fix should soon be available in the currently unused coffeehouse area on the first floor of CTLM East.

**True or False:** A "Gordian Knot" is what happens to your tongue when taking Professor Gordon's Japanese class.

**Answer:** Most likely, false. But "Gordian Knot" is in fact the title of a new sculpture by by Denver-born artist Douglas Kornfeld, found on the south side of the Center for Technology and Learning Media (CTLM) building. It was commissioned by the Colorado Council for the Arts as part of its Art in Public Places Program.

**True or False:** Construction will begin this month on the next addition to the Center for Technology and Learning Media, CTLM Far-East, which will be built in the middle of Arapahoe St. After completion, all current employee

cubicles will be enlarged into private employee suites, complete with kitchenettes.

**Answer:** Yeah, we wish. But that rumor is false.

**True or False:** Future network communications on campus will take place entirely between human telepaths, specially trained to think only in TCP/IP.

**Answer:** This rumor is in fact true. No it's not.

**True or False:** CSM currently boasts one of the top 150 supercomputers worldwide.

**Answer:** Not to brag but, yes, that's true. At the moment Ra is listed at #133 on the entire planet: <http://www.top500.org/list/2008/06/200/>.

**True or False:** Students may one day receive an official Mines webmail account courtesy of Gmail or Hotmail.

**Answer:** This one is a maybe. AC&N has been in contact with both Google and Microsoft in recent years, but, so far, legal and technical issues remain to be resolved and there is no plan to implement a new webmail system at this time.

### Did You Know?

CSM's new supercomputer, named Ra, contains 2,144 processing cores in 268 nodes. A full 256 of the nodes contain 512 Clovertown E5355 (2.67 GHz) quadcore dual socket processors. And 12 nodes have 48 Xeon 7140M (3.4 GHz) quad socket dual core processors. Total memory is 5,632 gigabytes (5.6 terabytes) of RAM along with 300 terabytes of disk or the equivalent of about 64,000 DVDs. Ra has a peak performance of 23 teraflop or 23,000,000,000,000 floating point calculations per second. It has a measured message passing speed of about 2 gigabytes/second.

## JUST THE FACTS

**How do you ask for help at Mines?**

For any problem involving computing on campus (Academic Computing and Networking), Information Services, Financial Services, Financial Aid, the Registrar, Admissions, or Human Resources, submit your request to <http://helpdesk.mines.edu/> -- or explore our database of frequently-asked computing questions in the CSM FAQFinder, <http://acn.mines.edu/academic/computer/faq/>.

**When is the Computer Commons (CTLM East) open?**

Monday-Thursday 7 a.m. - 11:45 p.m.  
Friday 7 a.m. - 5:30 p.m.  
Saturday 9 a.m. - 5:30 p.m.  
Sunday 9 a.m. - 11:45 p.m.

**How can I, a student, get an Academic Computing and Networking Consultant to give me hands-on help with my computer?**

Dial 303-263-3430 or -3431 to make an appointment with a consultant. Or walk into the computer commons (CT156) and we'll see what we can do.

### ..... Credits

This center spread was brought to you by CSM Chief Information Officer Derek Wilson and the staff of Academic Computing and Networking, including David Beausang, Gina Boice, Ron Cosseboom, David Frossard, Martin Heck, David Lee, Ginny Lee, Phil Romig III, Steve Wittstruck, and Ed Zucker.



# MUSIC REVIEW

## Phantom Planet

### Raise the Dead

Hilary Brown  
Copy Editor

Phantom Planet have returned from the brink of dead rock. For four years, fans have been waiting to the follow-up to the 2004 release, **Phantom Planet**. The new album, **Raise the Dead**, manages to combine the garage-band undertones of **Phantom Planet** with the acoustic pop sensibilities of 2002's **The Guest**.

The overall sound is infectious, dark, and completely danceable.

The album opens with "Raise the Dead," where the listener first hears singer Alex Greenwald's new penchant to talk to an audience that is not there: "Hear it now, the night is calling us/ wave your hands and summon the spirits up/ tonight, tonight, tonight/ we raise the dead." The first song, that gives the album its title, also serves as an illustration of the dichotomy between the music and lyrics.

That dichotomy is completely realized during "Do the Panic," the first single from the album. "I guess we're all in trouble, huh?/ Black clouds are upon us/ and it's doomsday on the other side of town./ That boy survived a severed head/ when most would just give up for dead," Greenwald quips over upbeat and

poppy guitars.

The lowest point of the album comes right after "Do the Panic." In "Quarantine," a slow, droning guitar plays beneath Greenwald's repetition of "quarantine." Luckily for the listener, the album picks right

back up with "Ship Lost at Sea," a song about unbalanced relationships with an almost-electronic vibe.

"Geronimo," with its heavy throb, would not have been out of place on **Phantom Planet**. The song flows through several rises and falls, with Greenwald screaming "Uhhhhh, Geronimo!" The song is about sex, but not just any sex. Greenwald protests that "you don't want to make me blush/ you want me unconscious... never thought this harmless crush/ could be so dangerous."

This album will lodge itself in the listener's brain after just one or two listens. Although die-hard Phantom Planet fans will think that they waited two years too long for it, it's still worth a listen.

4 stars out of 5



# TECH BREAK

...with Ian Littman  
Big Tech Questions Answered

Hello again. Welcome to Fall 2008 at the Colorado School of Mines. Here are some quick answers to a few technical questions you might have:

Q: I've moved off-campus and can't send e-mail using my Mines account anymore. What can I do?

A: Change your server settings. Usually found in the Tools menu under Accounts, you'll need to make sure your SMTP server settings for your Mines e-mail account are correct. The username and password should be the same as what you use to get your e-mail. The SMTP server address should be smtp.mines.edu, the port should be 465 and the connection should use SSL. There is another way to send e-mail (log-

Acer, HP, MSI, and... Dell have entered the "netbook" market, making for a nice bunch of choices if you want a small, light, cheap computer for lugging to class.

gging into the Mines network via a VPN) but that approach, which I admit I used, is akin to driving in a thumb tack with a sledgehammer. Putting in the correct server settings is a lot easier.

Q: I saw you talking about new laptop processors coming out over the summer. Where are they? Does

my laptop have one inside?

A: If you're a Mac user, technically no, though Apple's current iMac line is pretty much equivalent to the new "Montevina" chipset that's showing up in laptops now. These new chips are marked by their ultra-fast "FSB" or "front side bus" speeds at 1066 MHz, as well as other, less visible improvements, like better graphics and faster memory. If you can afford it, get one of these machines. If not, don't worry; if you just got a new computer it's plenty fast enough. However, the P series of these new processors is quite thrifty in terms of battery life.

You can, as of this writing, currently find these processors in laptops from HP, Asus, Lenovo, and other lesser-known manufacturers. Dell doesn't have the processors in their consumer notebooks yet (though their new Latitude E series have the parts) and Apple doesn't have them at all, but this should change shortly. It sounds as though there will be an event September

9th in which Apple will introduce a lot of stuff, including iPods and probably new laptops.

One more thing: remember the Eee PC I mentioned in the buying guide? Asus has vastly expanded their lineup of models of the little guy. You can now buy an Eee PC with a 7, 9 or 10 inch screen. You can get one for cheap with the older Celeron M processor, or one with the newer, less power-hungry, more powerful Intel Atom. There's even a hard-disk-based model for people willing to give up disk speed and a little durability for more storage and a cheaper price. Additionally, Acer, HP, MSI, and, eventually, Dell have entered the "netbook" market, making for a nice bunch of choices if you want a small, light, cheap computer for lugging to class. None of these computers are powerful enough to use as a primary machine if you do anything more than surf and e-mail, though.

That's it for this issue of Tech Break. If you have any questions, comments, concerns or rants about what I've written here or elsewhere, e-mail me at [ilittman@mines.edu](mailto:ilittman@mines.edu). I'd love to help, and I might even endure a self-righteous rant about the superiority of some random brand (HP, Apple, Gateway, Linux) or two!



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Sweepstakes entries will be divided into the following markets: Philadelphia, Michigan, Chicago, Seattle, Portland, The Bay Area, Potomac, Maryland, Colorado, Arizona, Central Pennsylvania, South Florida, Pittsburgh, Memphis, Palm Beach, Eastern Washington, and Jacksonville. To enter: Between 12:01 a.m. Eastern Time ("ET") on August 1, 2008 and 11:59 p.m. ET on October 1, 2008 (the "Entry Period"), there are three (3) ways to enter: 1) Online: Visit and complete and submit the official entry form. All online entries must be received by 11:59 p.m. ET on October 1, 2008 to be eligible. 2) Text the word "FYH" to shortcode 25278. Your cellular phone must be capable of sending and receiving text messages to participate via this method. Standard/Other text messaging rates apply. See your wireless provider for pricing plan details. All text message entries must be received by 11:59 p.m. ET on October 1, 2008 to be eligible. Entrants will incur four (4) standard text message charges for each text message entry. Or, 3) Mail a 3" x 5" card hand-printed with your name, complete address, telephone number (including area code) and date of birth in an envelope with proper postage affixed to: Sweepstakes c/o University Pipeline, 209 Ninth Street, Third Floor, San Francisco, CA 94103. Please include on the outside bottom right hand corner of the envelope the Market drawing into which you wish to be entered. Sponsor will determine, in its sole discretion, into which Market drawing a mail-in entry will be entered if the Market is not specified on the outside of the stamped outer envelope. Mail-in entries must be postmarked by October 1, 2008, and received by October 15, 2008. Limit one (1) entry per person/email address/email address/cellular phone number via methods #1 and #2, regardless of Market and method of such entry. 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# Oredigger Football Has High Hopes for Upcoming Season

**Matthew Pusard**  
Content Manager

"We have never felt like more of a family and we have worked extremely hard this past off season; it is finally time to reap the benefits from our sacrifices."

These words of optimism came from CSM starting quarterback David Pesek. It displays a confidence and chemistry that is prevalent throughout this year's football team. Six of the past seven seasons have resulted in winning seasons for Mines's football team and the team is striving to improve upon that mark.

With 17 starters returning from last year's post-season-bound squad, the team had a head start in getting ready for this season.

"The great thing about having a lot of returners back is that you don't skip a beat coming off the season into Spring Ball and likewise into fall camp," said David Pesek, the team's junior starting quarterback. "There was a quick transition from summer into fall camp since we had so many guys coming back."

Pesek, who attempted a RMAC-high 436 passes last season, leads a passing-heavy offense, but said that there might be more balance to it this season. "The offense this year is really dynamic with the run-

"We have never felt like more of a family and we have worked extremely hard this past off season; it is finally time to reap the benefits from our sacrifices."

ning ability of JT Baum and Cory Huck teamed with great receivers in Adam Saur, Tom Kastens, Donald Markley, Dominic Bravo, and Robin Vinnola," said Pesek. "Our offense is definitely passing oriented, but our offensive line is doing great and is much improved in run blocking this season. I'm excited to take advantage of that."

Defensively, the team has a new coordinator, Bob Benson, but little else has changed. Their forceful defense has 10 returning starters from last year's team which led the nation in sacks per game (4.67) and blocked an outstanding 11 kicks.

Of course, at Mines, it is never easy to be successful at a sport. "Succeeding as a student here

at Mines, as you know, is extremely difficult alone," said Pesek of the rigors of Mines. "I wouldn't be doing as well on and off the field if it weren't for my fellow teammates, coaches, and family, but most importantly relying on the Lord and seeking Him for His strength."

Pesek kept busy outside of school when he made a weeklong trip to Afghanistan over the summer to help build a refugee camp in Berek Aub. "My trip to Afghanistan was the single greatest experience of my life," Pesek said of the trip. "Not only did it open my eyes to

a place halfway around the world, it has continued to impact each day of my life. I left a piece of my heart in South Asia and I hope to return in the near future to utilize engineering skills learned here at the Colorado School of Mines to change the lives of Afghans and other people living in tumultuous conditions."

This year, Oredigger fans will have a new opportunity to follow their games like never before. "We are planning on broadcasting 10 football games this season," said Bruce Levine, a representative from B2 Networks. The games will be streamed on their website and available on a pay-per-view basis.

"I think having all of our games broadcast on the web is a great way for students, friends, and family to be able to see us in action every week," said Pesek. "It is also extremely important to be able to display the excellence of Mines athletics to the alumni working all over the world."

The website will also be handling CSM volleyball, men's basketball, and women's basketball



COURTESY NICK SUTCLIFFE

# Cutler Critical For Broncos' Fortunes

## The 2008 Broncos will live and die by Jay Cutler's arm

**Matthew Pusard**  
Content Manager

While the Broncos have many outstanding players, such as Champ Bailey, Tom Nalen, and Elvis Dumervil, they are still a decidedly average team. They have merely patched up their

weaknesses from last season.

The trade for Dwayne Robertson and a reshuffling of the linebackers will help the rushing defense, but they will be merely acceptable this year.

The offensive line is restocked with the talented Nalen, Ben Hamilton and Ryan Clady, but injury issues and inexperience will raise question marks throughout the year.

Running backs Selvin Young and Andre Hall will be quick and hard to tackle, but they lack beef and neither seems to be an every down back.

M i k e  
S h a n a h a n

tried to copy the Patriots by signing many journeymen wide receivers this offseason, but their top receivers are draft picks plus the returning Brandon Stokely.

Even the secondary looks average, in spite of Bailey and Dre' Bly, after the Broncos let go of perennial Pro Bowler John Lynch.

All of this is not a recipe to overtake the San Diego Chargers, a dangerous team with elite players like LaDainian Tomlinson, Antonio Gates, Shawn Merriman, and a top five offensive line. But Denver holds one distinct advantage over the Chargers at the game's most valued position: quarterback.

Denver's Jay Cutler and San Diego's Phillip Rivers actually had statistically similar seasons last year with 20 touchdowns and 3000+ yards passing each. But Rivers had two advantages over Cutler: he had a superior supporting cast and he did not have undiagnosed Type 1 diabetes ravaging his body.

In 2007, Cutler played like an average quarterback with diabetes causing him to feel fatigued constantly and lose 35 pounds over the course of the season. His superior arm strength was sapped and he was unable to use the full spectrum of his talents. Nevertheless, Cutler outplayed half of the quarterbacks in the league. Imagine how he will play when he's feeling good.

That grit is why Cutler, going into his third year, has received a lot of praise

in his short career. Broadcasters on ESPN have frequently compared his skill set to Hall of Famer Brett Favre. NFL personnel expert Michael Lombardi of Sports Illustrated has declared, "Cutler will win a Super Bowl someday." It is rare to hear anything negative about Cutler and it is easy to see why. Cutler bench pressed 225 pounds 23 times, as much as some linemen, during the 2006 combine. He is unafraid to run the ball, gaining the 4th most rushing yards among quarterbacks in 2007 in spite of his weariness and poor offensive line. Cutler even has done offseason special training with his favorite targets, Brandon Marshall and Tony Scheffler, in order to prepare for the new season. All of this gives Denver hope.

As shown by the 2008 Patriots,

2004 Colts, and 2000 Rams, a potent passing game can go a long way and the Broncos at least have a shot at that. Defense may win championships, but offense can put you in prime position in the playoffs.

With Cutler's diabetes under control, his cannon-like arm back, and speedy receivers in Marshall and rookie Eddie Royal, the Broncos have big play ability once again. If that opens up, the pressure will be off the Broncos' running backs and that could be enough to give the team more wins than losses this season with a weak schedule and division. The Chargers are still the favored team, but with their best players coming off an assortment of knee and toe injuries and a young phenom at the helm in Denver, there is hope for this year.



COURTESY WIKIMEDIA COMMONS

## CLASSIFIEDS

**SEP 8: GOLDEN CONCERT CHOIR REHEARSALS START**  
Come sing with the Golden Concert Choir! No auditions are required for membership, only the ability to match pitch. We are committed to bringing the joy of singing to everyone.

Rehearsals begin Monday, September 8, 2008 at Applewood Valley United Methodist Church, 2035 Ellis Street, Golden. New singers should arrive at 6:30. Rehearsals are Monday evenings from September to May, from 7:00pm to 9:00pm. There are choir dues (special arrangements available). Soloists will be auditioned from the choir. We will be doing a Christmas concert Dec. 6 & 7th and will be performing Elijah in the spring.



# The true expression of freedom

**JT Foss**  
Staff Writer

Last Wednesday, on sporadic impulse, my comrade Beach and I embarked on an odyssey into the heart of the Democratic National Convention in downtown Denver. Our mode of transmission: the city bus down Colfax (an interesting journey, to say the least).

Arriving just west of downtown, we were instantly struck by the sight of miles and miles of metal fencing, presumably placed to govern the flow of an as of yet invisible mass of people. Spotting an important-looking guy with credentials hanging around his neck, we fell into covert pursuit and moved further towards the center of the metropolis, slowly blending into a river of important-looking people (many sporting Obama clothing).

A troop of forty or so intimidating riot police and SWAT officers welcomed us with friendly smiles. I'm not positive whether they were armed with rubber bullets or submachine guns, but I prefer to tell the story using submachine guns, for obvious reasons. There were SWAT vans and convoys of police cars everywhere, generating an incredible military presence, persuasively conveying the idea that something big was happening

in Denver.

To a resident of small Golden, big is a gross understatement. Denver received a \$50 million federal grant to secure the DNC.

After receiving directions from a rather personable SWAT officer (who gladly posed, menacingly, in a picture beside a tourist), we turned our tireless trek down another

A surging mass of protesters marched directly towards us, shouting chants of peace and naturally, deep loving for George W.

street pointed towards the 16<sup>th</sup> Street Mall, joined by a small group of reporters looking for the "Freedom Cage". Fortunately, our curiosity about the "Freedom Cage" was quickly satiated.

A surging mass of protesters marched directly towards us, shouting chants of peace and naturally, deep loving for George W. Within minutes, we were consumed by the march (which CNN later estimated to have involved 9,000 individuals) and immersed in the most fascinating array of people I've ever seen. More ethnicities, causes, and beliefs were represented than I dare number, in colorful and sometimes amusing ways.

The march was essentially led (I use "essentially" to not exclude the maniacal fanatics in the very front) by a coalition of military veterans voicing their opposition to U.S. military involvement in Iraq and the (in their opinion) excessive

loss of American life involved in the conflict.

Following were people of many colors and ideas, some dressed in pink, some dressed in black and shrouded by not altogether peaceful-looking bandanas, and some that looked perfectly ordinary - granted those were few and far between. Everyone had a reason to be there, whether it be to protest the life of a friend or relative lost in Iraq or to simply promote the main idea behind all of it: peace.

Far more exciting than the fact that we were within a few miles of Barack Obama, the Clinton s, Ben Affleck and whoever else was drawn to the event was the fact that

I was part of something that embodies the essence of America, something that could draw tank fire in China, and something that represents human expression in its barest form.

I was part of something that embodies the essence of America, something that could draw tank fire in China, and something that represents human expression in its barest form. I witnessed thousands of opinionated individuals marching for a cause and belief they found to be important. Participating in such an event was an educational and eye-opening experience I can't say I regret in any way.

The significance of this major political event eventually inspired a somewhat provocative conversa-

tion between Beach and I regarding the zealous political activism omnipresent on the Mines campus (end sarcasm). In this day and age, the collegiate demographic is one of the most influential in modern politics (no doubt that Obama is in debt to us students), and I've never once witnessed a demonstration of opinion on the CSM campus. College campuses are generally viewed as hotbeds for progressive thought, sources of ideas, not passive conglomerations of corporate drones.

I understand that Mines does exemplify technological progress and human ingenuity, but this world is deeply reliant on science and thus wise application of said disciplines is absolutely imperative. Equipped with engineering educations in America, presently the greatest world power, it is us that

will shape the future our children will face.

As a campus of the best and the brightest scientists and engineers, shouldn't Mines be involved in the state of the world also? Engineers may not make the decision to go to war, but they absolutely decide how the war is fought. How can we provide our society with tools but not take the time to ensure they are used responsibly?

Though I all but rush to sound a call to arms and encourage political fanaticism, I urge my fellow students to become involved in world affairs and, at the very least, register to vote. We are the educated, the intelligent, and someday, perhaps, our ideas could make a difference.

Your passive obedience and unquestioning acceptance of the state of the world will be overshadowed by the many who participated in the Freedom Cage, and dare I say it, a good portion of the CU Boulder student body. In an ailing economy and tense global climate, how long can you, as a leader for the future, sit idle and watch the world around you tear itself apart?

## Duffy's Corner: embracing transitions

**Kevin Duffy**  
Content Manager

Transitioning to a new social environment inevitably brings fearful thoughts, apprehensive feelings and a longing for the familiar past. With any decision to move beyond the realm of personal comfort, the risk persists that such self doubt will be all-consuming. However, the potential adversity faced in the transition pales in comparison to the great reward of personal growth achieved through embracing the change.

Two weeks ago, over 900 freshmen began a transition of their own. Compelled by the prospect of earning a world-class education, they began a journey into the Mines community – a journey that many have traveled before but is nonetheless unique to each individual.

What makes the transition successful for the new student? The answer is neither prescribed nor straightforward in any respect. CSM certainly goes to great lengths to ease the process and provide a lucid answer: Orientation, CSM101, Celebration of Mines and various programmatic events. And while immensely helpful, these events only provide a framework for success, not a quick-fix solution.

The true measure of a successful transition is how willing the incoming student embraces a mental commitment to the effort. In high school, most decisions are made without consent. Class registration, attendance, performance and a litany of others were all decided in advance. The reverse is true in college. Certainly rules and regulations apply, but the freedom to fail or to succeed becomes personal. Therefore, the successful transition is an intellectual promise to choose a victory mentality in all endeavors.

The tools are available and the CSM community is full of trust and welcoming mentors. Seek

out the individuals on this campus who will help you become a better person and learn from your fellow peers. Mines is second-to-none in cultivating successful individuals. With strong personal resolve and a willingness to seek out help, the success of a new student is all but assured.

In another 9 months, the class of 2009 will twirl their tasseled graduation hats in a symbolic gesture of their collective accomplishment. The career fairs and summer internships have guided the direction in many cases, but again nothing can substitute for the experience it self.

After years of tedious academic exertion, the work-world may come as a surprise. The people will be different, the schedule will be different and, of course, the work will be different. Depending on the industry and job title, even the technical skills learned at Mines may be applied either constantly and directly or only as a foundational background of problem solving ability.

In any event, graduating seniors, especially those going into industry, cannot second-guess themselves in fear of the unknown transition ahead. They must embrace the change as they did several years ago as freshman trying to cement their place at Mines. So take heed of those early lessons, make new connections, mentally commit to the effort and identify mentors early.

Whether adjusting to college or preparing for the workforce, the adversity faced is much the same. In fact, any effort in which we struggle to push ourselves outside the bounds of the status quo brings, by definition, adversity and achievement. By facing these transitions with the audacity to rebuff challenges and strive for success, we enrich our experiential palettes and expand the possibilities of our lives.

# First Lady Michelle?

**Andrew Aschenbrenner**  
Opinion Columnist

With the craziness of the Democratic National Convention in Denver last week, the focus was on the Democratic Party, delegates, unity, and, of course, the Obamas.

The Obama family has a way of commanding the headlines. Both Barack and his wife, Michelle, are lawyers by profession, and, while the oratory skills of the former are a major topic of conversation, the latter has also commanded a presence during the Presidential campaign.

Magazines such as People, Vanity Fair, and Newsweek gave the potential First Lady and her family life cover stories on everything from her relationship with Barack to her fashion sense. Her poise and forcefulness are frequent topics.

As a result of her forceful way of speaking, Mrs. Obama has been seen as confrontational and angry, and has been criticized for saying to a crowd at a campaign event that "for the first time in my adult lifetime, I'm really proud of my country." She may come off as too strong at times, but it is just that characteristic which also makes her seem sincere.

Michelle Obama took the prime-

time speaking slot on the DNC's first night, where the publicized theme was "One Nation" and the goal appeared to be showing who

Michelle Obama appears publicly as a force and a fighter, which means she will likely be an asset to her husband's chances at the Presidency in November

on the south side of Chicago, helping the neighborhood rebuild after a steel plant shut down. She spoke of "fairness and justice and opportunity."

The speech aimed at showing what is possible and what people can contribute to the nation. The story of Michelle Obama is one of personal accomplishment and hard work. When she shares her story, it is with the intent to motivate. She is not as eloquent as her husband, but that serves her well. While Barack fits the leader role, Michelle seems to talk as a friend. She certainly does not seem like the average First Lady. Anyone who can search Wikipedia will find her record of accomplishments lengthy, and that she has a law doctorate from Harvard Law School. Her history hints at someone who is not only incredibly intelligent, but also involved in fighting for what she believes.

Michelle Obama appears publicly as a force and a fighter, which means she will likely be an asset to her husband's chances at the Presidency in November. She may not be a political candidate, but she can command a stage, and she could be a figure to watch in the campaign season ahead.

It can be a hard task to objectively judge a campaign speech inside an arena full of enthusiastic supporters, but Michelle Obama's was a speech about how she was raised and how she has worked hard to help other people. She talked about working





# M-Climb declared un-success Sinclair searches for solutions, threatens fees

**Ricky Walker**  
Geopaintologist

Every fall, before school begins, the incoming freshmen participate in the well-known ritual of ascending Mount Zion to give the Mines 'M' a fresh coat of whitewash—at least that's how it's supposed to be. Everyone knows that generally the paint gets splashed around a bit, but there is usually at least a small effort to ensure that everyone's rock gets painted white. Unfortunately, this was not the case this year.

According to several prominent Blue Key members, the freshman class this year put almost no concern into ensuring that the beloved 'M' was given its yearly tune-up. "It was like a drunken frat party," one of the Blue Key members stated. "They simply threw the paint on each other and it was over. By the time we noticed that most of the rocks hadn't been painted, the whitewash was gone."

Blue Key members aren't the only ones noticing. Many students on campus are noticing that the cherished symbol of our school does not have the typical white luster that is characteristic of this time of year. "It looks kind of like an run-down building," said Zach Mantey, a senior in Computer Science. "It just really disappoints me how this year's freshmen have just completely ignored some of the traditions that make this school what it is."

The distress over the quality of the freshman's work has even resonated with the administration of the school. CSM Dean, Bob "Guzzler" Sinclair, is now searching for options. "The problem is actually more severe than most know," said Dr. Sinclair. "Sure, it doesn't look too bad now, but the winter will take its toll, and by the time graduation comes about, most of the parents may not even notice that it is there."

When asked about potential

solutions to the problem, Dr. Sinclair stated that they were considering several paths, including either paying a company to do the job right, or to send the freshman class up the mountain again. "We are leaning towards paying professionals, but that would naturally include an additional tuition fee for freshmen in the Spring. It is a dilemma."

Most other administrators shared the same sentiments. When questioned about whether these options were fair, one of the desk workers in Guggenheim stated, "Sure, its also partly Blue Key's fault for not telling the freshmen beforehand, but blaming the freshmen is just easier."

Whatever decision is made, one thing is for sure—this is a mistake that the school cannot afford to have happen again. For more information and for continuing updates on the status of the president's decision, students can visit <http://www.oredigger.net/WhiteWashProblem/>.



HILARY BROWN / OREDIGGER

**Official Coors Lab.** Petroleum students now have mandatory lab for professional development in beer consumption.

# DNC protestors cook giant omelette Group requested more pepper, salt sprays

**Tim Weilert**  
Denver Omelette Specialist

Attendees of the Democratic National Convention, which took place last week in downtown Denver, saw occasional scuffles between the thousands of protestors and the massive police force present in the city.

However, not all interactions with the two groups were violent or destructive. One group, the Coalition of Denver Residents, was protesting St. Louis's claim to being the "Home of the World's Largest Denver Omelette."

"This is simply unacceptable," said Margret Billings. "Denver needs to take back its title." Billings, an Aurora resident and graduate of the Culinary Institute of Art, gathered a team of chefs and law enforcement officers at Civic Center Park last Wednesday.

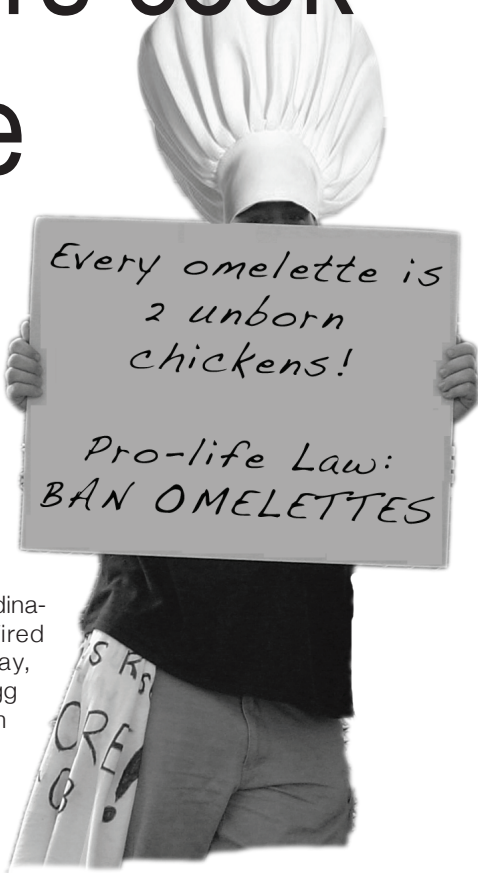
"Denver's got it all wrong, and St. Louis completely misses the

point," said Tom Spensor, a protestor from Kansas. "Every omelette is two or more unborn chickens who have a right to life."

Under the supervision of their coordinator, police fired pepper spray, salt spray, egg spray, ham spray, onion spray, and green pepper spray into a 120 foot wide frying pan. Armed snipers, who were posted on the top of the City and County Building fired upon any pigeons that made their way within a 200 foot perimeter of the giant egg dish.

As the omelette finished cooking, members of another protest group, Recreate '68, stormed the scene, destroying the creation.

A similar event occurred in



HILARY BROWN / OREDIGGER

**I'll Take That To-Go.** Protestors arrive at the DNC to make their voices heard.

1968 during the DNC in Chicago. The Windy City's claim to be the "Home of the World's Largest Deep-dish Pizza" was ruined when protestors overturned the giant pie.

**Adam Freeland**  
Renewable Gas Consultant

It is widely believed that this will be the greatest legacy of Dean Sinclair. The well, when completed, will generate an estimated six million dollars a year. That six million will be pure profit, as all capital costs incurred during the construction were fully funded under the false labeling as the Student Bus Pass Fund. The expected revenue is planned to pay for all undergraduate tuition by the year 2010.

Methane was discovered accidentally just three years ago. A geophysics student noticed a flash while examining the world's deepest seismograph in the Green Center Basement. It happened again just 23 hours later. The student was able to trace the ignition point to a water boiler, and the source of the fuel to a small crack in the floor. This was confirmed to be methane by the flaming bubble test (soapy water put over the crack inflated flammable bubbles).

After thorough seismographic and psychic testing, it was determined to be North America's largest methane deposit. It is believed to have formed directly beneath Golden from a very unlikely source, mainly, Coors.

Prior to 1984, all Coors beer that failed the strictest quality control measures was dumped into the Golden ravine (the ravine has since been covered by Coors Building 23). In the bottom of the ravine, the beer flowed into small crack leading to the

Mantz Aquifer. In this aquifer, a previously unknown bacterium converted the beer to clean burning methane. The methane became trapped by the constant inflow of beer and then the subsequent construction of Building 23.

The Petroleum Engineering department has played a crucial role in the development of the well. They have brought forward numerous new techniques in methane extraction. The biggest breakthrough came with the new CO2-forced extraction method. In this method, two wells are drilled. In one, methane is extracted by allowing CO2 to fall through one of the wells. Since CO2 is heavier than methane, it displaces the methane and forces it out of the other well. All the CO2 that is needed to perform this extraction will be generated during the burning of the production methane.

The current well under construction will lead Mines into the future. Methane will power all of the school's heating needs. All excess methane will be sold at market value to three contracted buyers: Coors, Pedigree Dog Food of Northern Colorado and Woody's Wood Fired Pizza (soon to be "methane-fired pizza").

There is an impending lawsuit, though. Coors has claimed to be the rightful owners of the methane deposit. This suit is not likely to stand in Jefferson County Courts, but Mines has followed every legal rule in pursuing this methane source. The school does not want a repeat of the false 2007 gold strike at the Edgar Mine.





TIM WEILERT / OREDIGGER

**Celebration of Mines.** CSM students had a blast last Friday at the annual event, which featured a booth from the Explosives Club.

# CSM Health Center scandal

A student's daring tale

**Cameron Frisby**  
Mortally Wounded Spectator

Many have dared to speak out against the totalitarian rule of the Health Center, but this school year demanded an even greater hero, someone that would stand up for those oppressed by the seemingly endless streams of forms, questionnaires, and interviews required to waive the school's student insurance fee.

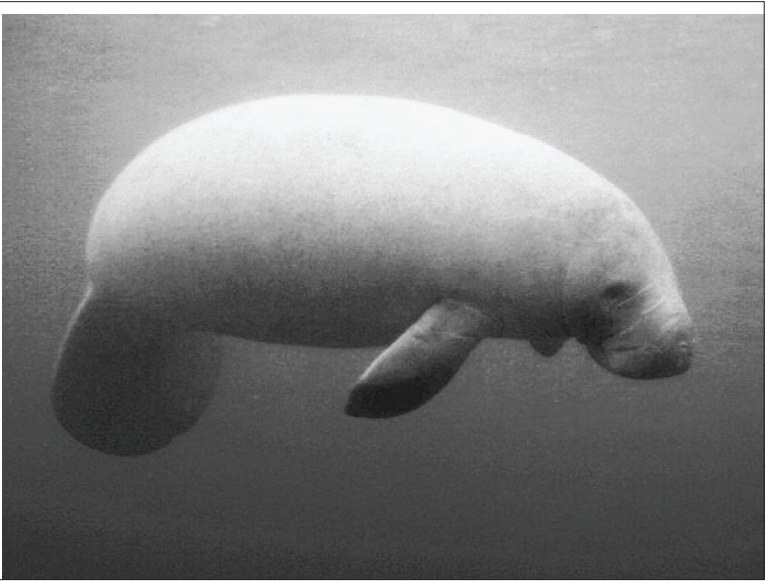
A hero emerged, but he was pushed to his very limits to defeat the oppressive rule of the Student Health Center [SHC].

This tail of deceit and corruption began this past summer. Shielding themselves behind student fee excuses, the employees at the SHC were able to turn away the sick in record numbers. Students with pneumonia, sprained ankles, pink eye, and other, worse ailments, were all refused care. The time saved by shooing away these pesky "sickies" enabled the nurses and doctors at the center to develop the most cunning health-care con ever.

The establishment of a twenty-step process to waive insurance formed the foundation of the project, codename "Manatee." At first the name seems innocent and cute, but do not be fooled. The outwardly peaceful manatee may seem harmless, but who stands up and fights for the one hundred and ten pounds of vegetation they eat *every day*? The secretly destructive nature of the manatee made it the perfect choice for the codename of an evil scheme seeking to wreak havoc on the Mines campus.

Despite the evil he strikes down, the star of this piece did not rise from his will to help others, but out of his fury at the SHC.

Drew Floor, Mines athlete extraordinaire, had been having a terrible week. His new roommates were loud and obnoxious and he



COURTESY WIKIMEDIA COMMONS

## Pure Evil.

lost his starting spot on the team. In addition to that, he could not waive the school's insurance because he was out of money. Fully enraged, Drew went to the SHC and demanded to meet with the

"Why would you unleash something as dangerous as the manatee on the Mines campus!?"

person in charge of the hellish system.

When he was told that SHC director Becky [real names have been changed for the safety of all

The establishment of a twenty-step process to waive insurance formed the foundation of the project, codename "Manatee."

those involved] would not be in until three, he refused to leave.

A small, but important, side note: the Student Health Center frequently uses "SHC" as an abbreviation of the name that spits evil. However, SHC is also the abbreviation for Spontaneous Human Combustion. A coincidence?

I think not.

When the director invited our hero into his office, Drew entered carefully. While he was making his way to his chair, he clearly saw a file labeled "Project Manatee" on the director's desk. A long time anti-manatee activist, Drew knew about the sea cow's evil. He immediately questioned the director, "Why would you unleash something as dangerous as the manatee on the Mines campus!?"

Without a moment's hesitation the director spun and pressed a button that sent poor Drew falling straight into the SHC's obstacle course of death.

I shall spare you the details of Drew's heroic run through the gauntlet, but it is important to understand that his escape route featured one of the schools heating tunnels. Mr. Floor managed to

reach the CTLM's heart and destroy the server running the insurance waiving program.

This simple act of destruction sparked an investigation that brought the truth to light, and the SHC to shame.

All hail Drew Floor. Fear the manatee.

# Shakespeare demands royalties

\$2B or not \$2B? That is the question

**Benjamin M. Weilert**  
Shakes Spears For Fun

Although he's been dead for almost 400 years, William Shakespeare arose from the dead this week to claim royalties for everything based off of his works. Julie Caplet was working the desk at the National Copyright office when the decomposing poet came strolling in asking for a check.

"I don't know who this guy thinks he is, with his frilly, soiled clothes and pale complexion, but I'm not giving any money to anyone who smells like rotting flesh," recalls Caplet. "The lady doth protest too much, methinks," replied the re-animated playwright.

When asked why he chose now to collect on his intellectual property, Shakespeare said, "Some are born great, some achieve greatness, and some have greatness thrust upon them. However, one cannot cash in on that greatness until he's been dead for a while."

The decaying Brit said that he refused to rob banks because of his invulnerability to bodily harm due to a strict moral standing. Picking his jaw up from the floor and reattaching it to his head, he said, "For I can raise no money by vile means."

Unfortunately, that's not how the entertainment industry sees it. "We're ruined. Completely and utterly ruined," was the response from

filmmaker Hamlet Macbeth Othello VIII. "There have been no original ideas in Hollywood for 75 years! We've just been using his material over and over again since it seems to sell tickets."

Royalties will be paid to Shakespeare for every film that's based on any of his plays. This includes studio profits, DVD sales and syndication.

Films such as *10 Things I Hate About You*, *She's the Man*, *West Side Story*, and *Shakespeare in Love* will be among the affected movies. Speculation has arisen as to the timing of Shakespeare's

"We're ruined. Completely and utterly ruined... There have been no original ideas in Hollywood for 75 years!"

resurrection in regards to the recent opening of the movie *Hamlet 2*. After screening the film, Shakespeare's reaction was good. "That's actually the exact plot I had in mind for the sequel to Hamlet."

With the rising of one of the great literary figures of all time, other industries are bracing for similar circumstances. Zondervan, one of the lead publishers of Bibles, dreads the second coming of Jesus Christ. "If he comes back, he'll want a hefty chunk of change. It'll definitely be his red letter day," said Zondervan CEO, Gideon Zondervan.

Heaven refused to comment on the exact time of Christ's second coming but did suggest that we shouldn't be starting any long term projects any time soon.

# 13 reasons...

**Chris Scherf**  
Captain Planet, CSM Alumnus

I was reading the Rocky Mountain news recently and found an appalling article that said the gays and lesbians should have the same rights, including name, that straight people have. Has the world gone mad? In case it really has, I must share with you that gay marriage killed the dinosaurs. Let me share with you the top 13 of hundreds of reasons why gay marriage is bad:

13. Gay marriage will change the foundation of society; we could never adapt to new social norms. Just like we haven't adapted to cars, the service-sector economy, or longer life spans.

12. Children can never succeed without a male and a female role model at home. That's why our society has no single parents.

11. Gay marriage is not supported by religion. In a theocracy like ours, the values of one religion are imposed on the entire country. That's why we have only one religion in America.

10. Obviously gay parents will raise gay children, since straight parents only raise straight children.

9. Straight marriages are valid because they produce children. Gay couples, infertile couples, and old people shouldn't be allowed to marry because our orphanages aren't full yet, and the world needs more children.

8. Gay marriage should be decided by the people and their elected

representatives, not the courts. The framers checked the courts, which represent mainstream public opinion, with legislatures created to protect the rights of minorities from the tyranny of the majority. Interference by courts in this matter is inappropriate, just as it has been every time the courts have tried to hold back legislatures pushing for civil rights.

7. Straight marriage will be less meaningful if gay marriage were allowed; the sanctity of Brittany Spears' 55-hour just-for-fun marriage would be destroyed.

6. Civil unions, providing most of the same benefits as marriage with a different name are better, because "separate but equal" institutions are a good way to satisfy the demands of uppity minority groups.

5. Straight marriage has been around a long time and hasn't changed at all; women are still property, blacks still can't marry whites, and divorce is still illegal.

4. Legalizing gay marriage will open the door to all kinds of crazy behavior. People may even wish to marry their pets because a dog has legal standing and can sign a marriage contract.

3. Gay marriage will encourage people to be gay, in the same way that hanging around tall people will make you tall.

2. Being gay is not natural. Real Americans always reject unnatural things like eyeglasses, polyester, and air conditioning.

1. METEORS and VOLCANOES.





**INTRAMURAL DEADLINES**

**WIFFLE BALL: THURS. 8/21@ 5PM**



**GOLF 3 CLUB TOURNEY: THURS. 9/4@ 5PM**  
**-\$25 PER PERSON, COVERS GREEN FEES, CART RENTAL, AND RANGE TOKENS**

**ULTIMATE FRISBEE: THURS. 9/4@ 5PM**

**GOLF SCRAMBLE 2/TEAM: THURS 9/11@ 5PM**  
**-\$35 PER PERSON, COVERS GREEN FEES, CART RENTAL, RANGE TOKENS, AND A DRINK COUPON**

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## JOIN US

**09-09-08**

Career Fair  
9:30 AM – 4:00 PM  
at Student Recreation Center

**09-15-08**

J. Michael Yeager, Group Executive,  
Chief Executive Petroleum  
Recruitment Presentation  
11:00 AM – 11:45 AM  
at Student Center Ballrooms A-C

**09-15-08**

President's Lecture Series  
J. Michael Yeager, Group Executive,  
Chief Executive Petroleum  
*Resourcing The Future: The Keys  
to Opening New Doors*  
in the Petroleum Industry  
12:00 PM – 1:00 PM  
at Student Center Ballrooms A-C

**09-21-08**

DiggerNet – Resume Drop Deadline  
12:00 Midnight  
DiggerNet

**10-06-08 & 10-07-08**

On-Campus Interviews  
Pre-Selected via Diggernet  
at Career Center

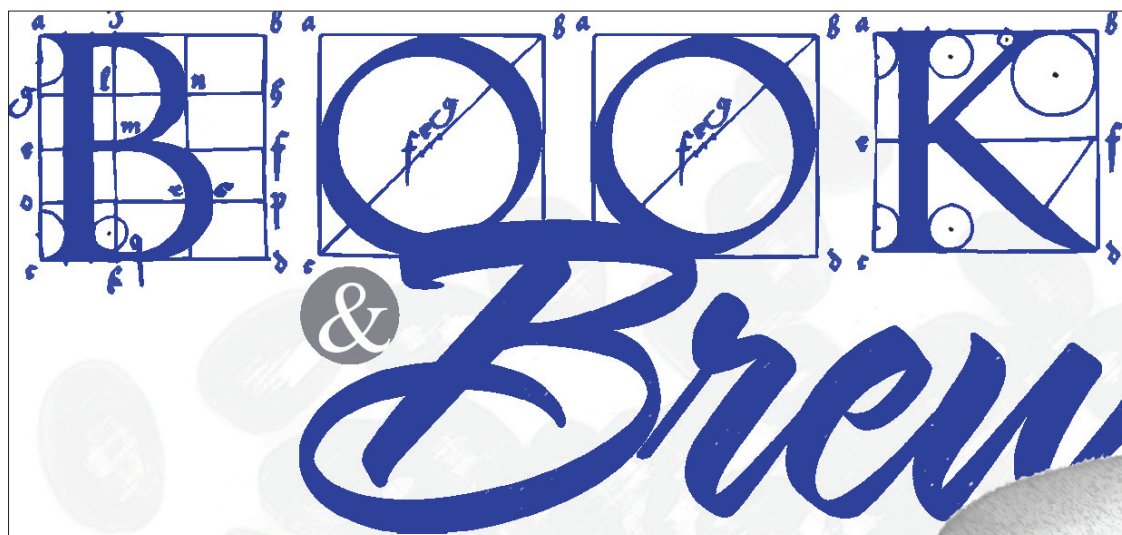
▶ **BORN IN AUSTRALIA.**  
**RECOGNIZED THE WORLD OVER.**



**BHP BILLITON PETROLEUM:  
A NEW BREED OF PETROLEUM COMPANY.**

BHP Billiton was founded in Australia. But our petroleum business is at home all over the world. Our Petroleum division is headquartered in Houston, Texas, with operations in six countries around the globe. We also recently have acquired new exploration acreage in five additional countries greatly expanding our presence and growth potential. But no matter where we go or how large we get, behind it all is a diverse international team of professionals across a variety of disciplines focused on a single mission – to keep the energy moving.

For more information visit our website at [petroleum.bhpbilliton.com](http://petroleum.bhpbilliton.com)



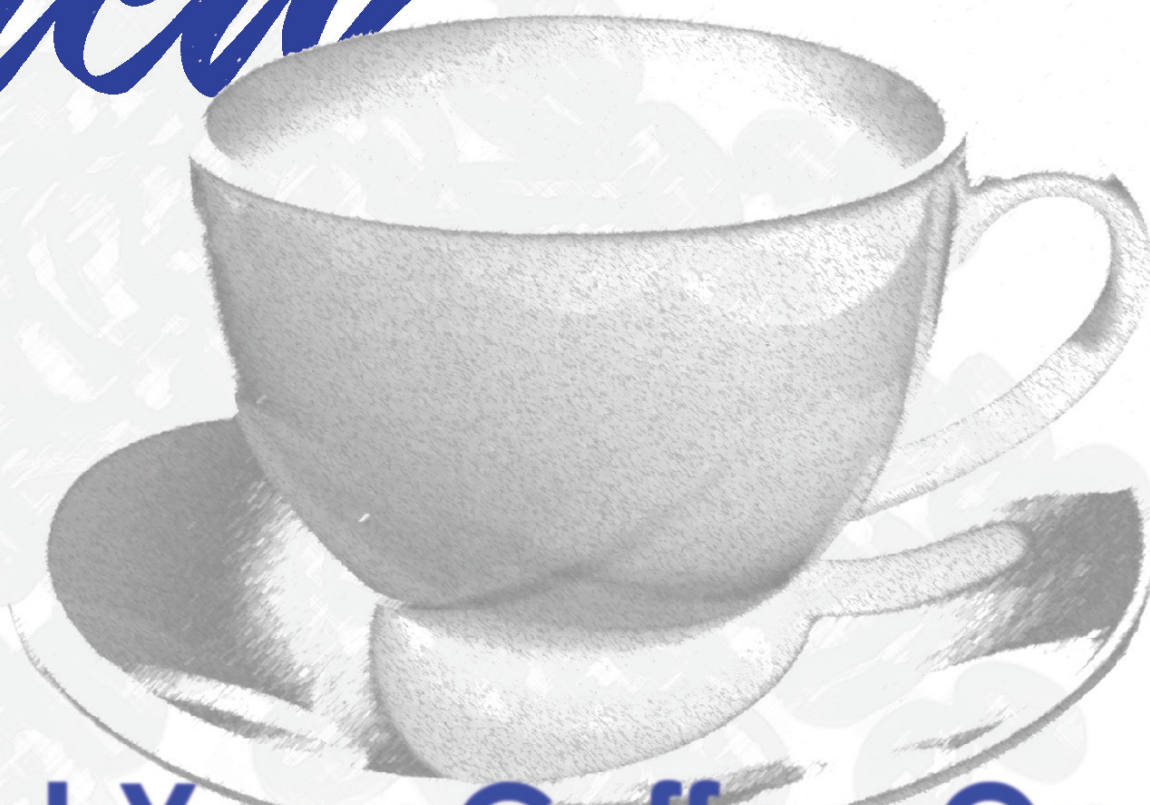
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